AECOM Environment

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July 2016

St. Louis Park Investigation – FY16

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1.0 Introduction

1.1 Background

The project initially started as an investigation to identify the source of chlorinated solvent constituents including vinyl chloride (VC), cis 1,2-dichloroethylene (cDCE), trichloroethylene (TCE), and perchloroethylene (PCE) in Edina municipal wells E2, E7 and E15. The investigation lead to an area of St. Louis Park where multiple lines of evidence were utilized to narrow down the source area. The available data indicates that several PCE releases have occurred in the area east of Louisiana Avenue and north of Highway 7.

Analytical data obtained from previous investigations indicated that a vapor intrusion investigation and mitigation response was necessary. Mitigation activities associated with vapor intrusion included the installation of sub-slab depressurization (SSD) systems in the Elmwood and Lenox Neighborhoods in St. Louis Park by the Environmental Protection Agency (EPA) in 2008. The Minnesota Pollution Control Agency (MPCA) determined that additional work was necessary to verify that the mitigation response plan continues to be effective and to identify potential chlorinated solvent release source areas.

1.2 Scope of Work

The MPCA communicated the scope of work to AECOM via emails and phone conversations in September through December 2015. AECOM outlined the scope of work for this investigation in a proposal to the MPCA dated December 10, 2015. The scope of work outlined field sampling activities and is discussed in Section 2, below. In addition, AECOM prepared a Sampling and Analysis Plan (SAP) prior to the investigation. The proposal was approved by the MPCA with a Work Order start date of December 23, 2015 (MPCA Work Order 3000015334).

The project site area for the current investigation is shown on Figure 1. An aerial overview of the vicinity of the project site and investigation areas is shown on Figure 2.

1.3 Sampling and Analysis Plan

The SAP was prepared by AECOM prior to initiating field work for this investigation. The SAP was approved by the MPCA on January 29, 2016. The field work outlined in the SAP was as follows:

- Complete six collocated direct push borings including soil and groundwater analysis in the vicinity of Eclipse Electric completed at an estimated depth of 100 feet below ground surface (bgs) or boring refusal. Samples submitted for VOCs via EPA method 8260B
- Complete three collocated direct push borings including soil and groundwater analysis in the vicinity of Care Cleaners completed at an estimated depth of 100 feet bgs or boring refusal. Samples submitted for VOCs via EPA method 8260B
- Complete three collocated direct push borings including soil and groundwater analysis in the vicinity of the former Super Radiator Coils (SRC) building (current Marathon Group property) completed at an estimated depth of 100 feet bgs or boring refusal. Samples submitted for VOCs via EPA method 8260B

- Complete four collocated direct push borings including soil and groundwater analysis in the vicinity of National Tire and Battery completed at an estimated depth of 100 feet bgs or boring refusal. Samples submitted for VOCs via EPA method 8260B
- Complete four direct push borings including groundwater analysis in the parking lot to the north of National Tire and Battery in the transect between borings completed previously in FY15 completed to a depth of 54 feet bgs. Samples submitted for VOCs via EPA method 8260B
- Install and sample up to five sub-slab, permanent soil vapor monitoring points in the Eclipse Electric building. Samples submitted for VOC analysis via EPA method TO-15
- Install and sample up to ten sub-slab, permanent soil vapor monitoring points near the Care Cleaners building. Samples submitted for VOC analysis via EPA method TO-15
- Sample up to ten residential wells in the St. Louis Park area
- Dispose of soil cuttings and purge water
- Complete a report summarizing investigation results

Quality control sampling including duplicate sample collection and trip blank analysis was performed in general accordance with the SAP. In addition, quality assurance measures relative to the collection and handling of samples and data collection was performed in accordance with the SAP.

Drilling services were provided by Matrix Environmental (Matrix). Soil, sub-slab soil vapor, indoor/outdoor air and waste characterization analytical services were provided by Pace Analytical Laboratory (Pace). Groundwater analytical services were performed by the Minnesota Department of Health (MDH) Public Health Laboratory. Waste disposal services were provided by Clean Harbors Environmental Services, Inc. (Clean Harbors).

Deviations from SAP

AECOM performed all field work for this investigation in accordance with the MPCA approved SAP. All field work not specified in the approved SAP for this project was performed in accordance with applicable MPCA Guidance.

Deviations from the SAP at the request of the MPCA included moving/renaming one boring due to utilities (moving and renaming B20 to B43), moving one boring due to access agreement issues (B21), moving two borings due to client request (B27 and B33), eliminating one groundwater only boring, increasing the depth of two groundwater only borings (B34, B35 and B36 respectively), replacing one collocated boring with a water only boring (B33) and completing four additional groundwater only borings (B41, B42, B44 and B45). The actual boring locations were determined in the field through discussions between AECOM and the MPCA Hydrogeologist.

Five permanent sub-slab soil vapor monitoring points were installed in the Ryan Company building located at 3361 Republic Avenue for this investigation which was not specified in the SAP. The five sub-slab permanent soil vapor monitoring points installed in the Ryan Company building were performed in lieu of the sub-slab soil vapor monitoring points for the Eclipse Electric building (specified in the SAP). The Eclipse Electric sub-slab soil vapor monitoring points were cancelled due to access agreement issues.

In addition, sub-slab soil vapor sampling points previously installed by AECOM at 3356 Gorham Avenue (Marathon Group building) under a separate Work Order were sampled for this investigation.

Indoor/outdoor air samples were also collected from the Marathon Group building for this investigation.

2.0 Investigation

The field work associated with this investigation including borings with soil and groundwater sampling, sub-slab soil vapor sampling, indoor/outdoor air sampling well sampling and waste disposal is discussed below.

The investigation focused on four areas and are defined as:

- **Current Eclipse Electric area** – commercial area, soil and groundwater sampling
- **Current Care Cleaners area** – commercial area, soil, groundwater and soil vapor sampling
- **Former Super Radiator Coils area (current Marathon Group property)** – commercial area, soil, groundwater and soil vapor sampling
- **Current National Tire and Battery area** – commercial area, soil and groundwater sampling

Each of the four investigation areas is identified on Figure 2.

Utility meets and/or locates were coordinated by Matrix through Gopher State One Call prior to initiating field work. In addition, private utility locates were coordinated by Matrix at private properties in which field work was performed.

A City of St. Louis Park Right of Way permit was obtained by AECOM for field work performed on City of St. Louis Park Right of Way property. In addition, AECOM and/or the MPCA obtained access agreements for all field work performed on private property.

2.1 Borings

A total of 23 borings (B21 through B45) were completed for this investigation. Seven borings were completed in the vicinity of the Eclipse Electric building, three borings were completed in the vicinity of the Care Cleaners building, three borings were completed in the vicinity of the former Super Radiator Coils building (current Marathon property) and ten borings were completed in the vicinity of the National Tire and Battery building.

Eclipse Electric

Borings B21 through B25, B42 and B43 were installed by AECOM from March 1 through March 22, 2016 to the east, south and southeast of the Eclipse Electric building located at 6512 Walker Street (see Figure 3).

Care Cleaners

Borings B37 through B39 were installed by AECOM on March 17 and March 18, 2016 to the southeast and southwest of the Care Cleaners building located at 6538 Lake Street (see Figure 4).

Marathon Group

Borings B26 through B28 were installed by AECOM from March 8 through March 23, 2016 both inside the current Marathon Group building located at 3356 Gorham Avenue and to the east-southeast of this building (see Figure 5).

National Tire and Battery

Borings B29 through B33, B35, B36, B41, B44 and B45 were installed by AECOM from February 23 through April 20, 2016 to the areas to the north, northwest and northeast of the National Tire and Battery building located at 7001 Lake Street (see Figure 6).

All of the aforementioned borings were installed via hydraulic direct push. Soil sampling and observations are discussed below in Section 2.1.1. The groundwater sampling activities are discussed below in Section 2.1.2. Borings B21 through B45 were sealed in accordance with MDH requirements upon completion. See Appendix A for Well Sealing Records. Each boring locations was recorded by a GPS device with sub-meter accuracy by AECOM.

2.1.1 Soil Sampling and Observation

A qualified AECOM environmental scientist oversaw the drilling activities at each of the borings installed for this investigation. Soil samples were collected on a continuous basis and logged during boring advancement. Soil samples were logged in accordance with the United Soil Classification System (USCS). In addition, soil samples were field screened with an 11.7 eV photoionization detector (PID) calibrated to an isobutylene standard for the presence of organic vapors.

A total of seventy one (71) soil samples were collected from Borings B21 through B45. Soil samples were collected from the top of silt/clay layers, soil zones with the highest identified or several highest PID readings and at the terminus of the boring. The soil samples were collected by AECOM and submitted to Pace under chain of custody procedures and analyzed for VOCs in accordance with the SAP. The results of the soil sampling and observations are discussed below in Section 3.1. The complete soil boring logs are included in Appendix B.

2.1.2 Groundwater Sampling

A total of one hundred eight (108) groundwater samples were collected from collocated water borings using a Geoprobe screen point sampler from borings B21 through B45. Groundwater samples were collected from each boring at the top of any low permeable layers identified in the soil boring, at intervals that exhibited elevated PID readings and at the terminus of the boring in accordance with the SAP. Additional groundwater samples were collected under the direction of the MPCA Hydrogeologist.

The groundwater samples obtained from Borings B21 through B45 were submitted to the MDH under chain of custody procedures and analyzed for VOCs in accordance with the SAP. The groundwater sample analytical results are discussed in Section 3.2.

2.1.3 Investigation Derived Waste

Two investigation derived waste (IDW) drums (one groundwater and one soil) were generated as part of the FY16 investigation by AECOM.

One representative soil sample was collected and submitted to Pace for the analysis of Toxicity Characteristic Leaching Procedure (TCLP) VOC, TCLP metals and total metals. In addition, one representative IDW groundwater sample was collected and submitted and analyzed for VOCs. The drum disposal is discussed in Section 3.4.

2.2 Vapor Sampling

2.2.1 Sub-slab Soil Vapor Sampling

A total of twenty (20) sub-slab soil vapor samples were collected for this investigation. Five sub-slab soil vapor samples were collected from the Ryan Company building located at 3361 Republic Avenue, two sub-slab samples were collected from the Bohn Welding building located at 6600 West Lake Street, eight sub-slab samples were collected from the Care Cleaners building located at 6528 West Lake Street and five sub-slab samples were collected from the Marathon Group building located at 3356 Gorham Avenue.

The sub-slab soil vapor samples were collected using 30-minute flow restrictors supplied by Pace. The sub-slab soil samples were submitted to Pace under chain of custody procedures and analyzed for VOCs using EPA method TO-15 in accordance with the SAP. The locations of the sub-slab monitoring points are shown on Figure 4 and Figure 5. The sample collection forms for the sub-slab soil vapor samples are included in Appendix B.

Ryan Company

Five permanent sub-slab vapor points (R-SSV-1 through R-SSV-5) were installed by AECOM in the building currently occupied by Ryan Company on February 19, 2016. One sub-slab soil vapor sample was collected from each of the five monitoring points mentioned above. See Figure 5 for sub-slab soil vapor sample locations. The sub-slab soil vapor analytical results are discussed in Section 3.3.

Bohn Welding

Two permanent sub-slab vapor points (B-SSV-1 and B-SSV-2) were installed by AECOM in the building currently occupied by Bohn Welding. One sub-slab vapor sample was collected from each of the two monitoring points mentioned above. See Figure 4 for sub-slab vapor point sample locations. The vapor analytical results are discussed in Section 3.3.

Care Cleaners

Seven permanent sub-slab vapor points (SSV-29 and SSV-31 through SSV-36) and one temporary sub-slab vapor point (SSV-30) were installed by AECOM in the building currently occupied by Care Cleaners at 6536 West Lake Street on April 1, 2016. One sub-slab soil vapor sample was collected from each of the eight monitoring points mentioned above. The temporary sub-slab soil vapor point was sealed upon sampling completion using instant concrete and the area smoothed to grade. See Figure 4 for sub-slab vapor point sample locations. The vapor analytical results are discussed in Section 3.3.

Marathon Group

A sub-slab depressurization (SSD) system was installed in the Marathon Group building located at 3356 Gorham Avenue by AECOM for the MPCA under separate Work Order in FY16 (Work Order 3000015075). The SSD system was installed as a result of sub-slab soil vapor results obtained from

sub-slab soil vapor monitoring points installed/sampled by AECOM for the MPCA in FY15. A letter documenting the SSD system construction and testing activities has been submitted to the MPCA under MPCA Work Order 3000015075 (AECOM Project 60476823).

Five permanent sub-slab vapor points (SSV-1 through SSV-5) were previously installed by AECOM for the MPCA in the building currently occupied by Marathon Group under a separate Work Order in FY15. One sub-slab soil vapor sample was collected from each of the five monitoring points mentioned above for this investigation (April 2016). In addition, one sub-slab soil vapor sample was collected from each point previously under Work Order 3000015075 (February 2016). See Figure 5 for sub-slab soil vapor point sample locations. The soil vapor analytical results are discussed in Section 3.3.

2.2.2 Indoor/Outdoor Air Sampling

Four indoor air samples and one outdoor air sample were collected for this investigation at the request of the MPCA. Four indoor air samples were collected from locations within the Marathon Group building. The background outdoor air sample was collected directly outside the Marathon Group building. In addition, four indoor air samples and one outdoor air sample were collected from the same locations discussed above under Work Order 3000015075 (February 2016).

The indoor and outdoor air samples were collected using 24-hour flow restrictors supplied by Pace. The indoor/outdoor air samples were submitted to Pace under chain of custody procedures and analyzed for VOCs using EPA method TO-15. The sample collection forms for the indoor/outdoor air samples are included in Appendix B. The indoor/outdoor air analytical results are discussed in Section 3.3.

3.0 Results

3.1 Soil Sampling

Seventy one (71) soil samples collected from Borings B21 through B45 were submitted to Pace for analysis of VOCs as discussed in Section 2. Up to six soil samples were collected from each boring at the top of silt/clay layers, zones of elevated PID readings and at the terminus of the boring in accordance with the SAP.

The analytical results were reviewed by AECOM and compared to Soil Leaching Values (SLVs) and Residential/Industrial Soil Reference Values (SRVs) established by the MPCA. The results are summarized on Table 1. The complete analytical results are included in Appendix D.

Eclipse Electric

Borings B21 through B25 and B43 were installed to the east and south-east of the Eclipse Electric property in February through March 22, 2016.

Soils encountered in B21 through B25 and B43 generally consisted of sands with isolated and discontinuous clay and silt lenses. Silty sand was also generally encountered near the end of the borings. Groundwater was encountered at depths ranging from approximately 38 to 45 feet in Borings B21 through B25 and B43. The soil/groundwater profiles for B21 through B25 are detailed on the attached Cross-section E-E' (Figure 12A and 12B). The complete boring logs are included in Appendix B.

Soil samples were collected for laboratory analysis of VOCs in Boring B21 at depths of 30 feet, 47 feet, 53 feet, 78 feet and 93 feet, B22 at depths of 32 feet, 79 feet, and 89 feet, B23 at depths of 56 feet, 76 feet, 78 feet and 93 feet, B24 at depths of 51 feet, 56 feet, 63 feet, 91 feet and 96 feet, B25 at depths of 49 feet, 50 feet, 53 feet, 55 feet, 58 feet, 65 feet and 84 feet, B43 at depths of 49 feet, 53 feet, 71 feet and 76 feet.

PCE was identified in soil samples at concentrations exceeding the SLV of 41.5 micrograms per kilogram (µg/kg) at the following locations:

- Boring B23 – 130 µg/kg (56 feet), 3,020 µg/kg (76 feet), 170 µg/kg (78 feet) and 69 µg/kg (93 feet)
- Boring B24 – 95.3 µg/kg (50 feet), 137 µg/kg (63 feet)
- Boring B25 – 70.3 µg/kg (50 feet), 152 µg/kg (53 feet), 99.6 µg/kg (55 feet), 992 µg/kg (58 feet), 62.2 µg/kg (65 feet)

TCE was identified in soil samples at concentrations exceeding the SLV of 2.3 µg/kg at the following locations:

- Boring B23 – 310 µg/kg (76 feet)
- Boring B25 – 226 µg/kg (58 feet)

cDCE was identified in soil samples at concentrations exceeding the SLV of 208 µg/kg at the following locations:

- B23 – 409 µg/kg (76 feet)
- B24 – 576 µg/kg (96 feet)
- B25 – 1,050 µg/kg (58 feet)

No other VOCs in exceedance of established SLVs and/or SRVs were identified in the other soil samples collected from Borings B21 through B25 and B45.

Care Cleaners

Borings B37 through B39 were installed by AECOM March 17 through March 18, 2016.

Soils encountered in B37 through B39 generally consisted of sands with layers of clay or sandy clay. Groundwater was encountered at depths ranging from approximately 35 to 45 feet in Borings B37 through B39. The soil/groundwater profiles for B21 through B25, B42 and B43 are detailed on the attached Cross-section F-F' (Figure 13A and Figure 13B). The complete boring logs are included in Appendix B.

Soil samples were collected for laboratory analysis of VOCs in Boring B37 at depths of 45 feet and 50 feet, B38 at depths of 42 feet, 49 feet and 60 feet, B39 at depths of 53 feet, 57 feet and 61 feet.

No VOCs in exceedance of established SLVs and/or SRVs were identified in the soil samples collected from Borings B37 through B39.

Marathon Group

Borings B26 through B28 were installed by AECOM to the east and south-east of the Marathon Group property on March 8 through March 23, 2016.

Soils encountered in B26 through B28 generally consisted of sand with isolated lenses of silt and clay. Groundwater was encountered at depths ranging from approximately 29 to 38 feet in Borings B26 through B28. The soil/groundwater profiles for B26 through B28 are detailed on the attached Cross-section A-A' (Figures 8A and 8B) and Cross-section B-B' (Figures 9A and 9B). The complete boring logs are included in Appendix B.

Soil samples were collected for laboratory analysis of VOCs in Boring B26 at depths of 34 feet, 47 feet, 53 feet, 58 feet and 73 feet, B27 at depths of 43 feet, 45 feet, 55 feet, 57 feet, 63 feet and 73 feet, B28 at depths of 23 feet, 58 feet, 64 feet and 72 feet.

No VOCs in exceedance of established SLVs and/or SRVs were identified in the soil samples collected from Borings B26 through B28.

National Tire and Battery

Borings B29 through B32 were installed to the north, northeast and northwest of the National Tire and Battery building from February 22 through February 24, 2016.

Soils encountered in B29 through B32 generally consisted of sands with isolated and discontinuous clay and silt lenses. Silty or clayey sand was also generally encountered near the end of the borings. Groundwater was encountered at depths ranging from approximately 37 to 40.5 feet in Borings B29 through B32. The soil/groundwater profiles for B29 through B32 are detailed on the attached Cross-section C-C' (Figures 10A and 10B) and Cross-section F-F' (Figures 13A and 13B). The complete boring logs are included in Appendix B.

Soil samples were collected for laboratory analysis of VOCs in Boring B29 at depths of 34 feet, 53 feet and 80 feet, B30 at depths of 36 feet, 45 feet and 98 feet, B31 at depths of 33 feet, 47 feet, 52 feet, 53 feet and 83 feet, B32 at depths of 38 feet, 77 feet and 94 feet.

PCE was identified in soil samples at concentrations exceeding the SLV of 41.5 µg/kg at the following locations:

- Boring B31 – 729 µg/kg (47 feet), 1,300 µg/kg (52 feet) and 1,320 µg/kg (53 feet)

TCE was identified in soil samples at concentrations exceeding the SLV of 2.3 µg/kg at the following locations:

- Boring B31 – 180 µg/kg (52 feet) and 175 µg/kg (53 feet)

No other VOCs in exceedance of established SLVs and/or SRVs were identified in the other soil samples collected from Borings B29 through B32.

3.2 Groundwater Sampling

3.2.1 Groundwater Sampling through Temporary Monitoring Wells

One hundred and eight (108) groundwater samples were collected from temporary monitoring wells installed in each boring (B21 through B33, B35 through B39, and B41 through B45) at saturated intervals above low permeability zones, above the soil/bedrock interface and at any zones exhibiting high PID readings in accordance with the SAP. The groundwater samples were analyzed for VOCs as discussed in Section 3. The analytical results were reviewed by AECOM and compared to MDH established Health Risk Limits (HRLs), Health Based Values (HBVs) and/or Risk Assessment Advice (RAA).

Eclipse Electric

Groundwater samples were collected from Boring B21 at depths of 40-48 feet, 50-54 feet, 75-79 feet and at the terminus (86-90 feet), B22 at depths of 76-80 feet and at the terminus (86-90 feet), at B23 at depths of 46-50 feet, 50-54 feet, 54-58 feet, 61-65 feet, 74-78 feet, 78-82 feet and at the terminus (89-93 feet), B24 at depths of 47-51 feet, 51-55 feet, 61-65 feet, 74-78 feet, 78-82 feet and at the terminus (89-93 feet), B25 at depths of 41-45 feet, 45-49 feet, 54-58 feet, 58-62 feet, 65-69 feet, 69-73

feet, 73-77 feet and at the terminus (93-97 feet), B42 at depths of 41-45 feet, 45-49 feet, 54-58 feet, 58-62 feet, 65-69 feet, 69-73 feet and at the terminus (73-77 feet), and B43 at depths of 45-49 feet, 49-53 feet, 53-57 feet, 57-61 feet, 68-72 feet and at the terminus (73-77 feet).

PCE was identified at concentrations exceeding the HRL of 5 µg/L and HBV of 4 µg/L at the following locations:

- Boring B21 – 6.2 µg/L (44-48 feet)
- Boring B23 – 530 µg/L (46-50 feet), 790 µg/L (50-54 feet), 1,400 µg/L (54-58 feet) and 1,900 µg/L (61-65 feet)
- Boring B24 – 32 µg/L (47-51 feet), 120 µg/L (51-55 feet) and 1,600 µg/L (61-65 feet)
- Boring B25 – 22 µg/L (41-45 feet), 110 µg/L (45-49 feet), 4,700 µg/L (54-58 feet) and 120 µg/L (58-62 feet)
- Boring B42 – 82 µg/L (41-45 feet), 210 µg/L (45-49 feet), 1,800 µg/L (54-58 feet) and 18 µg/L (58-62 feet)

TCE was identified at concentrations exceeding the HRL of 5 µg/L and HBV of 0.4 µg/L at the following locations:

- Boring B21 – 7.6 µg/L (50-54 feet)
- Boring B23 – 29 µg/L (50-54 feet), 60 µg/L (54-58 feet) and 130 µg/L (61-65 feet)
- Boring B24 – 39 µg/L (47-51 feet),140 µg/L (51-55 feet) and 1,600 µg/L (61-65 feet)
- Boring B25 – 24 µg/L (41-45 feet), 94 µg/L (45-49 feet), 4,200 µg/L (54-58 feet) and 120 µg/L (58-62 feet)
- Boring B42 – 51 µg/L (41-45 feet), 100 µg/L (45-49 feet), 920 µg/L (54-58 feet) and 12 µg/L (58-62 feet)

cDCE was identified at concentrations exceeding the HRL of 50 µg/L and HBV of 6 µg/L at the following locations:

- Boring B21 – 11 µg/L (50-54 feet), 200 µg/L (75-79 feet) and 8.3 µg/L (86-90 feet)
- Boring B22 – 840 µg/L (76-80 feet) and 59 µg/L (86-90 feet)
- Boring B23 – 260 µg/L (46-50 feet), 210 µg/L (50-54 feet), 140 µg/L (54-58 feet), 500µg/L (61-65 feet), 2,900 µg/L (74-78 feet), 2,900 µg/L (78-82 feet) and 2,900 µg/L (89-93 feet)
- Boring B24 – 730 µg/L (47-51 feet), 1,000 µg/L (51-55 feet), 5,800 µg/L (61-65 feet), 4,400 µg/L (74-78 feet) and 3,400 µg/L (88-92 feet)
- Boring B25 – 42 µg/L (41-45 feet), 97 µg/L (45-49 feet), 2,200 µg/L (54-58 feet), 1,400 µg/L (58-62 feet), 430 µg/L (65-69 feet), 660 µg/L (69-73 feet), 800 µg/L (73-77 feet) and 420 µg/L (93-97 feet)
- Boring B42 - 170 µg/L (41-45 feet), 230 µg/L (45-49 feet), 1,400 µg/L (54-58 feet), 320 µg/L (58-62 feet), 140 µg/L (65-69 feet), 180 µg/L (69-73 feet) and 300 µg/L (73-77 feet)
- Boring B43 – 78 µg/L (45-49 feet), 150 µg/L (49-53 feet), 920 µg/L (53-57 feet), 2,400 µg/L (53-57 feet), 2,400 µg/L (57-61 feet), 2,000 µg/L (68-72 feet) and 1,400 µg/L (73-77 feet)

trans-1,2-Dichloroethene (tDCE) was identified at concentrations exceeding the HRL of 40 µg/L at the following locations:

- Boring B22 – 44 µg/L (76-80 feet)
- Boring B23 – 66 µg/L (74-78 feet), 68 µg/L (78-82 feet) and 63 µg/L (89-93 feet)
- Boring B24 – 86 µg/L (61-65 feet), 110 µg/L (74-78 feet) and 140 µg/L (88-92 feet)
- Boring B25 – 56 µg/L (54-58 feet), 59 µg/L (58-62 feet), 59 µg/L (65-69 feet), 72 µg/L (69-73 feet), 94 µg/L (73-77 feet) and 130 µg/L (93-97 feet)
- Boring B42 – 58 µg/L (73-77 feet)
- Boring B43 – 59 µg/L (53-57 feet), 90 µg/L (57-61 feet) and 95 µg/L (68-72 feet)

VC was identified at concentrations exceeding the HRL of 0.2 µg/L at the following locations:

- Boring B21 – 30 µg/L (75-79 feet)
- Boring B22 – 80 µg/L (76-80 feet) and 55 µg/L (86-90 feet)
- Boring B23 – 35 µg/L (61-65 feet), 230 µg/L (74-78 feet), 230 µg/L (74-82 feet) and 210 µg/L (89-93 feet)
- Boring B24 – 31 µg/L (47-51 feet), 46 µg/L (51-55 feet), 69 µg/L (61-65 feet), 230 µg/L (74-78 feet) and 200 µg/L (88-92 feet)
- Boring B42 – 9.8 µg/L (41-45 feet), 11 µg/L (45-49 feet), 31 µg/L (58-62 feet), 78 µg/L (65-69 feet), 74 µg/L (69-73 feet) and 110 µg/L (73-77 feet)
- Boring B43 – 7.4 µg/L (45-49 feet), 17 µg/L (49-53 feet), 100 µg/L (53-57 feet), 180 µg/L (57-61 feet), 170 µg/L (68-72 feet) and 200 µg/L (73-77 feet)

Benzene was identified at concentrations exceeding the HRL of 0.2 µg/l at the following locations:

- Boring B21 – 6.6 µg/L (75-79 feet)
- Boring B23 – 29 µg/L (74-78 feet), 28 µg/L (78-82 feet) and 28 µg/L (89-93 feet)
- Boring B24 – 39 µg/L (74-78 feet)
- Boring B25 – 25 µg/L (69-73 feet)
- Boring B42 – 13 µg/L (65-69 feet), 14 µg/L (69-73 feet) and 17 µg/L (73-77 feet)
- Boring B43 – 34 µg/L (57-61 feet) and 29 µg/L (68-72 feet)

Total Xylenes was identified at a concentration exceeding the HRL of 300 µg/L at the following location:

- Boring B42 – 829 µg/L (45-49 feet)

1, 2, 4-Trimethylbenzeene was identified at concentrations exceeding the RAA of 100 µg/l at the following location:

- Boring B42 – 350 µg/L (45-49 feet)

No other VOC exceedances were identified in the groundwater samples collected from Borings B21 through B25, B42 and B43.

Care Cleaners

Groundwater samples were collected from Boring B37 at depths of 41-45 feet and at the terminus (49-53 feet), B38 at depths of 45-49 feet and at the terminus (56-60 feet) and B39 at depths of 48-52 feet and at the terminus (53-57 feet).

No VOC exceedances were identified in the groundwater samples collected from Borings B37 through B39. The results are summarized on Table 2. The complete analytical results are included in Appendix D.

Marathon Group

Groundwater samples were collected from Boring B26 at depths of 31-35 feet, 44-48 feet, 50-54 feet, 54-58 feet, 60-64 feet, 70-74 feet and at the terminus (77-81 feet), B27 at depths of 42-46 feet, 51-55 feet, 55-59 feet, 59-63 feet, 65-69 feet and at the terminus (70-74 feet) and B28 at depths of 39-43 feet, 53-57 feet, 61-65 feet, 69-73 feet and at the terminus (77-81 feet).

TCE was identified at concentrations exceeding the HRL of 0.4 µg/L at the following locations:

- Boring B26 – 39 µg/L (31-35 feet)
- Boring B27 – 58 µg/L (59-63 feet), 190 µg/L (65-69 feet) and 960 µg/L (70-74 feet)

cDCE was identified at concentrations exceeding the HRL of 50 µg/L and HBV of 6 µg/L at the following locations:

- Boring B27 – 320 µg/L (42-46 feet), 160 µg/L (59-63 feet), 350 µg/L (65-69 feet) and 1,900 µg/L (70-74 feet)

tDCE was identified at concentrations exceeding the HRL of 40 µg/L at the following locations

- Boring B26 – 85 µg/L (50-54 feet), 74 µg/L (54-58 feet), 110 µg/L (60-64 feet), 790 µg/L (70-74 feet) and 410 µg/L (77-81 feet)
- Boring B27 – 110 µg/L (59-63 feet), 300 µg/L (65-69 feet) and 1,400 µg/L (77-81 feet)
- Boring B28 – 44 µg/L (61-65 feet), 76 µg/L (69-73 feet) and 300 µg/L (77-81 feet)

VC was identified at concentrations exceeding the HRL of 0.2 µg/L at the following locations:

- Boring B26 – 34 µg/L (50-54 feet) and 34 µg/L (70-74 feet)
- Boring B27 – 85 µg/L (42-46 feet), 35 µg/L (65-69 feet) and 140 µg/L (70-74 feet)
- Boring B28 – 14 µg/L (53-57 feet)

Benzene was identified at concentrations exceeding the HRL of 2 µg/L at the following locations:

- Boring B26 – 71 µg/L (44-48 feet), 65 µg/L (50-54 feet), 90 µg/L (54-58 feet), 93 µg/L (60-64 feet), 150 µg/L (70-74 feet) and 150 µg/L (77-81 feet)
- Boring B27 – 98 µg/L (42-46 feet), 83 µg/L (51-55 feet), 78 µg/L (55-59 feet), 86 µg/L (59-63 feet), 120 µg/L (65-69 feet) and 110 µg/L (70-74 feet)

Ethylbenzene was identified at concentrations exceeding the HRL of 50 µg/L at the following locations:

- Boring B26 – 63 µg/L (44-48 feet), 62 µg/L (70-74 feet) and 58 µg/L (77-81 feet)
- Boring B27 – 150 µg/L (42-46 feet), 110 µg/L (51-55 feet), 100 µg/L (55-59 feet), 92 µg/L (59-63 feet), 110 µg/L (65-69 feet) and 100 µg/L (70-74 feet)
- Boring B28 – 58 µg/L (39-43 feet), 60 µg/L (61-65 feet), 74 µg/L (69-73 feet) and 68 µg/L (77-81 feet)

No other VOC exceedances were identified in the groundwater samples collected from Borings B26 through B28. The results are summarized on Table 2. The complete analytical results are included in Appendix D.

National Tire and Battery

Groundwater samples were collected from Boring B29 at depths of 50-54 feet and at the terminus (74-78 feet), B30 at depths of 41-45 feet and at the terminus (94-98 feet), B31 at depths of 43-47 feet, 53-57 feet and at the terminus (80-84 feet), B32 at depths of 73-77 feet and at the terminus (90-94 feet), B33 at depths of 43-47 feet, 48-52 feet, 53-57 feet, 58-62 feet, 62-66 feet, 62-66 feet and at the terminus (66-70 feet), B35 at depths of 46-50 feet, 50-54 feet, 54-58 feet, 58-62 feet, 62-66 feet and at the terminus (96-100 feet), B36 at depths of 46-50 feet, 50-54 feet, 54-58 feet, 58-62 feet, 62-66 feet and at the terminus (94.5-98.5 feet), B41 at depths of 43-47 feet, 48-52 feet, 53-57 feet and at the terminus (76-80 feet), B44 at depths of 43-47 feet, 48-52 feet, 53-57 feet, 58-62 feet, 62-66 feet and at the terminus (66-70 feet) and B45 at depths of 43-47 feet, 48-52 feet, 53-57 feet, 58-62 feet, 62-66 feet and at the terminus (66-70 feet).

PCE was identified at concentrations exceeding the HRL of 5 µg/L and HBV of 4 µg/L at the following locations:

- Boring B30 – 400 µg/L (41-45 feet)
- Boring B31 – 280 µg/L (43-47 feet), 9,100 µg/L (48-52 feet) and 520 µg/L (53-57 feet)
- Boring B33 – 420 µg/L (43-47 feet), 12,000 µg/L (48-52 feet) and 9,400 (53-57 feet)
- Boring B35 – 2,100 µg/L (46-50 feet), 5,900 µg/L (50-54 feet), 5,700 µg/L (54-58 feet), 3,700 µg/L (58-62 feet) and 360 µg/L (62-66 feet)
- Boring B36 – 1,300 µg/L (46-50 feet) and 1,700 µg/L (50-54 feet)
- Boring B41 – 3,100 µg/L (43-47 feet), 21,000 µg/L (48-52 feet), 1,300 µg/L (53-57 feet) and 17 µg/L (76-80)
- Boring B44 – 290 µg/L (43-47 feet), 4,200 µg/L (48-52 feet) and 1,900 feet (53-57 feet)

TCE was identified at concentrations exceeding the HRL of 0.4 µg/L at the following locations:

- Boring B30 – 17 µg/L (41-45 feet)
- Boring B31 – 9.2 µg/L (43-47 feet) and 350 µg/L (53-57 feet)
- Boring B33 – 15 µg/L (43-47 feet), 130 µg/L (48-52 feet) and 520 µg/L (53-57 feet)
- Boring B36 – 63 µg/L (46-50 feet) and 230 µg/L (50-54 feet)
- Boring B41 – 270 µg/L (43-47 feet), 1,600 µg/L (48-52 feet) and 500 µg/L (53-57 feet)
- Boring B44 – 32 µg/L (43-47 feet) and 1,100 µg/L (53-57 feet)

cDCE was identified at concentrations exceeding the HRL of 50 µg/L and HBV of 6 µg/L at the following locations:

- Boring B29 – 42 µg/L (50-54 feet) and 150 µg/L (74-78 feet)
- Boring B30 – 280 µg/L (41-45 feet) and 1,100 µg/L (94-98 feet)
- Boring B31 – 69 µg/L (43-47 feet), 170 µg/L (48-52 feet), 2,000 µg/L (53-57 feet) and 1,500 µg/L (80-84 feet)
- Boring B32 – 220 µg/L (73-77 feet) and 930 µg/L (90-94 feet)
- Boring B33 – 89 µg/L (43-47 feet) 120 µg/L (48-52 feet), 930 µg/L (53-57 feet), 21 µg/L (58-62 feet), 47 µg/L (62-66 feet) and 100 µg/L (66-70 feet)
- Boring B35 – 210 µg/L (58-62 feet), 270 µg/L (62-66 feet) and 3,000 µg/L (96-100 feet)
- Boring B36 – 62 µg/L (46-50 feet), 280 µg/L (50-54 feet), 930 µg/L (54-58 feet), 480 µg/L (58-62 feet), 660 µg/L (62-66 feet) and 2,800 µg/L (94.5-98.5 feet)
- Boring B41 – 230 µg/L (43-47 feet), 510 µg/L (48-52 feet), 620 µg/L (53-57 feet) and 500 µg/L (76-80 feet)
- Boring B44 – 70 µg/L (43-47 feet), 120 µg/L (48-52 feet), 2,700 µg/L (53-57 feet), 300 µg/L (58-62 feet), 420 µg/L (62-66 feet) and 750 µg/L (66-70 feet)
- Boring B45 – 56 µg/L (43-47 feet), 73 µg/L (48-52 feet), 12 µg/L (53-57 feet), 25 µg/L (58-62 feet), 82 µg/L (62-66 feet) and 71 µg/L (66-70 feet)

tDCE was identified at concentrations exceeding the HRL of 40 µg/L at the following locations:

- Boring B30 – 140 µg/L (94-98 feet)
- Boring B31 – 79 µg/L (53-57 feet) and 110 µg/L (80-84 feet)
- Boring B32 – 48 µg/L (73-77 feet) and 87 µg/L (90-94 feet)
- Boring B33 – 66 µg/L (53-57 feet)
- Boring B35 – 110 µg/L (96-100 feet)
- Boring B36 – 140 µg/L (94.5-98.5 feet)
- Boring B41 – 46 µg/L (48-52 feet), 56 µg/L (53-57 feet) and 88 µg/L (76-80 feet)
- Boring B44 – 74 µg/L (53-57 feet), 41 µg/L (58-62 feet), 52 µg/L (62-66 feet) and 64 µg/L (66-70 feet)
- Boring B45 – 69 µg/L (43-47 feet) and 110 µg/L (48-52)

VC was identified at concentrations exceeding the HRL of 0.2 µg/L at the following locations:

- Boring B29 – 27 µg/L (50-54 feet) and 44 µg/L (74-78 feet)
- Boring B30 – 11 µg/L (41-45 feet) and 170 µg/L (94-98 feet)
- Boring B31 – 14 µg/L (43-47 feet), 40 µg/L (53-57 feet) and 190 µg/L (80-84 feet)
- Boring B32 – 78 µg/L (73-77 feet) and 160 µg/L (90-94 feet)
- Boring B33 – 23 µg/L (53-57 feet), 14 µg/L (58-62 feet), 16 µg/L (62-66 feet) and 23 µg/L (66-70 feet)
- Boring B35 – 31 µg/L (62-66) and 150 µg/L (96-100 feet)
- Boring B36 – 46 µg/L (58-62 feet), 100 µg/L (62-66 feet) and 190 µg/L (94.5-98.5 feet)
- Boring B41 – 39 µg/L (43-47 feet), 28 µg/L (48-52 feet), 39 µg/L (53-57 feet) and 170 µg/L (76-80 feet)
- Boring B44 – 48 µg/L (53-57 feet), 73 µg/L (58-62 feet), 94 µg/L (62-66 feet) and 120 µg/L (66-70 feet)
- Boring B45 – 8.6 µg/L (43-47 feet), 21 µg/L (48-52 feet), 14 µg/L (53-57 feet), 16 µg/L (58-62 feet), 49 µg/L (62-66 feet) and 43 µg/L (66-70 feet)

Benzene was identified at concentrations exceeding the HRL of 2 µg/l at the following locations:

- Boring B29 – 7.4 µg/L (50-54 feet) and 16 µg/L (74-78 feet)
- Boring B30 – 29 µg/L (94-98 feet)
- Boring B31 – 9.1 µg/L (53-57 feet) and 36 µg/L (80-84 feet)
- Boring B32 – 28 µg/L (73-77 feet)
- Boring B33 – 6.4 µg/L (53-57 feet), 5.5 µg/L (58-62 feet), 8.8 µg/L (62-66 feet) and 16 µg/L (66-70 feet)
- Boring B41 – 21 µg/L (76-80 feet)
- Boring B44 – 11 µg/L (53-57 feet), 19 µg/L (58-62 feet), 26 µg/L (62-66) and 30 µg/L (66-70 feet)
- Boring B45 – 6.4 µg/L (58-62 feet), 11 µg/L (62-66 feet) and 8.6 µg/L (66-70 feet)

1, 2, 4-Trimethylbenzene was identified at concentrations exceeding the RAA of 100 µg/l at the following locations:

- Boring B41 – 460 µg/L (43-47 feet)
- Boring B45 – 280 µg/L (43-47 feet)

1, 3, 5-Trimethylbenzene was identified at concentrations exceeding the HRL of 100 µg/l at the following locations:

- Boring B41 – 130 µg/L (43-47 feet)
- Boring B45 – 280 µg/L (43-47 feet)

No other VOC exceedances were identified in the groundwater samples collected from Borings B29 through B36, B41, B44 or B45. The results are summarized on Table 2. The complete analytical results are included in Appendix D.

3.2.2 Residential Wells

Two homeowners in Edina, Minnesota responded to the MPCA survey in the spring of 2016 to have their potable groundwater wells sampled for VOCs. Water samples were collected from the following locations, if possible, in both residences; before any kind of water treatment including softening and after water treatment or water softeners. The groundwater analytical results were compared to the HRL/HBV/RAA established by the MDH.

Residence 1 – 5230 Interlachen Boulevard, Edina, MN

The groundwater is treated in three ways at this residence; first the water is iron filtered, then the hot water is softened and water for a dedicated drinking water vessel is filtered through a reverse osmosis (RO) filtration system. Samples were collected from three locations at this residence; prior to iron treatment, post iron treatment and from the dedicated drinking water vessel post iron treatment and RO filtration.

No compounds were identified in exceedance of the HRL/HBV/RAA in the three groundwater samples taken from the residence at 5230 Interlachen Boulevard. The laboratory analytical reports are included in Appendix D.

Residence 2 – 5017 Skyline Drive, Edina, MN

The groundwater is treated in two ways at this residence; first the water is iron filtered then is treated using an RO filtration system. Samples were collected from two locations at this residence; prior to iron treatment and post iron treatment and RO filtration.

No compounds were identified in exceedance of the HRL/HBV/RAA in either of the two groundwater samples taken from the residence at 5017 Skyline Drive. The laboratory analytical reports are included in Appendix D.

3.3 Soil Vapor Sampling

3.3.1 Sub-slab Soil Vapor Sampling

Sub-slab soil vapor samples collected from permanent sub-slab vapor monitoring points installed in the Ryan Company, Bohn Welding, Care Cleaners and Marathon Group buildings were analyzed for VOCs via method TO-15. The soil vapor analytical results were compared to the 10x Industrial Intrusion Screening Values (ISVs) established by the MPCA.

Ryan Company

TCE was identified at a concentration exceeding the 10x Industrial ISV of 60 micrograms per cubic meter (µg/m^3) at the following location:

- R-SSV-4 – 117 µg/m^3

No other compounds were identified in exceedance of the 10x Industrial ISVs in the sub-slab soil vapor samples collected from the Ryan Company building for this investigation (referenced in Section 2.2). The laboratory analytical results for the sub-slab vapor sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

Bohn Welding

PCE was identified at a concentration exceeding the 10x Industrial ISV of 300 µg/m^3 at the following locations:

- B-SSV-1/SSV-37 – 2,020 µg/m^3
- B-SSV-2/SSV-38 – 358 µg/m^3

TCE was identified at a concentration exceeding the 10x Industrial ISV of 60 µg/m^3 at the following locations:

- B-SSV-1/SSV-37 – 131 µg/m^3
- B-SSV-2/SSV-38 – 154 µg/m^3

2-Propanol (Isopropyl alcohol) was identified at a concentration exceeding the 10x Industrial ISV of 60 µg/m^3 at the following locations:

- B-SSV-1/SSV-37 – 845,000 µg/m^3
- B-SSV-2/SSV-38 – 897,000 µg/m^3

No other compounds were identified in exceedance of the 10x Industrial ISVs in the sub-slab samples collected from the Bohn Welding building for this investigation (referenced in Section 2.2). The laboratory analytical results for the industrial sub-slab vapor sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

Care Cleaners

PCE was identified at a concentration exceeding the 10x Industrial ISV of 300 µg/m^3 at the following locations:

- CC-SSV-1/SSV-29 – 7,770 µg/m^3
- CC-SSV-3/SSV-31 – 3,480 µg/m^3
- CC-SSV-4/SSV-32 - 450 µg/m^3
- CC-SSV-5/SSV-33 – 5,080 µg/m^3
- CC-SSV-7/SSV-35 – 1,500 µg/m^3
- CC-SSV-8/SSV-36 – 47,100 µg/m^3

TCE was identified at a concentration exceeding the 10x Industrial ISV of 60 µg/m^3 at the following locations:

- CC-SSV-1/SSV-29 – 406 µg/m^3
- CC-SSV-3/SSV-31 – 181 µg/m^3
- CC-SSV-8/SSV-36 – 2,670 µg/m^3

cDCE was identified at a concentration exceeding the 10x Industrial ISV of 2,000 µg/m^3 at the following locations:

- CC-SSV-8/SSV-36 – 3,790 µg/m^3

2-Propanol (Isopropyl alcohol) was identified at a concentration exceeding the 10x Industrial ISV of 200,000 µg/m^3 at the following locations:

- CC-SSV-1/SSV-29 – 200,000 µg/m^3
- CC-SSV-2/SSV-30 – 535,000 µg/m^3
- CC-SSV-3/SSV-31 – 472,000 µg/m^3
- CC-SSV-5/SSV-33 – 323,000 µg/m^3
- CC-SSV-6/SSV-34 – 580,000 µg/m^3
- CC-SSV-7/SSV-35 – 949,000 µg/m^3
- CC-SSV-8/SSV-36 – 430,000 µg/m^3

No other compounds were identified in exceedance of the 10x Industrial ISVs in the sub-slab samples collected from the Care Cleaners building for this investigation (referenced in Section 2.2). The laboratory analytical results for the industrial sub-slab vapor sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

Marathon Group

Two sub-slab soil vapor sampling events are discussed in this report (February Event under Work Order 3000015075 and the April Event under Work Order 3000015334). The results of each are summarized below.

TCE was identified at a concentration exceeding the 10x Industrial ISV of 60 µg/m^3 at the following location during the February 2016 sampling event:

- SSV-2 – 135 µg/m^3

No other compounds were identified in exceedance of the 10x Industrial ISVs in the sub-slab soil vapor samples collected from the Marathon Group building for this investigation (referenced in Section 2.3). The laboratory analytical results for the industrial sub-slab soil vapor sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

3.3.2 Indoor Air Sampling

At the request of the MPCA Project Manager indoor/outdoor air samples were collected from select locations in the Marathon Group building based on exceedances of applicable ISVs identified in sub-slab samples. Two sampling events are discussed in this report (February Event under Work Order 3000015075 and the April Event under Work Order 3000015334) and the results of each are summarized below. The indoor/outdoor air samples were analyzed for VOCs via method TO-15 as discussed in Section 2.2. The soil vapor analytical results are compared to the Industrial ISVs and Acute ISVs established by the MPCA.

Marathon Group (February 2016 Event)

TCE was identified at concentrations exceeding the Industrial ISV of 6 µg/m^3 at the following locations during the February Event:

- IA-2 – 109 µg/m^3
- IA-4 – 54.8 µg/m^3

Methylene chloride (dichloromethane) was identified at concentrations exceeding the Industrial ISV of 60 µg/ m^3 at the following locations during the February Event:

- IA-1 – 1,700 µg/m^3
- IA-2 – 280 µg/m^3
- IA-3 – 121 µg/m^3
- IA-4 – 1,150 µg/m^3

1, 2, 4-Trimethylbenzene was identified at concentrations exceeding the Industrial ISV of 20 µg/m^3 at the following location during the February Event:

- IA-2 – 41.5 µg/m^3
- IA-4 – 24.2 µg/m^3

No other compounds were identified in exceedance of the Industrial ISVs in the indoor air samples collected from the Marathon Group building during the February Event (referenced in Section 2.2). The laboratory analytical results for the industrial indoor air sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

Marathon Group (April 2016 Event)

TCE was identified at concentrations exceeding the Industrial ISV of 6 µg/m^3 at the following locations during the April Event:

- M-IA-1 – 26.9 µg/m^3
- M-IA-2 – 12.4 µg/m^3

- M-IA-4 – 15.2 µg/m^3

Carbon tetrachloride was identified at a concentration exceeding the Industrial ISV of 2 µg/m^3 at the following location during the April Event:

- M-IA-2 – 3.4 µg/m^3

Methylene chloride (dichloromethane) was identified at a concentration exceeding the Industrial ISV of 60 µg/m^3 at the following location during the April Event:

- M-IA-4 – 62.9 µg/m^3

No other compounds were identified in exceedance of the Industrial ISVs in the indoor air samples collected from the Marathon Group building during the April Event (referenced in Section 2.2). The laboratory analytical results for the industrial indoor air sampling are summarized on Table 4. The complete analytical reports are included in Appendix D.

3.4 Investigation Derived Waste

Two IDW drums were generated as part of this investigation as discussed previously in Section 2. AECOM submitted analytical results to Clean Harbors for disposal acceptance. The laboratory analytical results associated with disposal are included in Appendix D.

The two IDW drums generated as a result of this investigation were hauled offsite by Clean Harbors on March 3, 2016. The drums were transported and disposed by Clean Harbors at their facility in Deer Trail, Colorado. Drum disposal documentation is included in Appendix E.

4.0 Discussion

The St. Louis Park Investigation completed by AECOM included geographic-specific investigation activities in areas generally north of Highway 7 between Wooddale Avenue and Louisiana Avenue as well as building-specific areas for soil vapor investigation. The following discussion provides a summary of the findings of the 2016 investigation.

4.1 Soil

Soil samples were collected throughout the investigation area at various depth intervals both above and below groundwater. Only soil samples collected from borings downgradient (southeast) of Eclipse Electric (B23, B24, and B25) contained VOCs at concentrations exceeding the SLVs.

4.2 Groundwater

4.2.1 Sampling through Temporary Monitoring Wells

The 2016 groundwater investigation provided additional information on the vertical and horizontal distribution of VOC impacts at locations near and downgradient (southeast) of previous investigation areas. Care Cleaners and Bohn Welding, areas upgradient/side gradient and previously not investigated were also included in the 2016 groundwater investigation. No VOCs, however, were identified in groundwater samples collected from the Care Cleaners and Bohn Welding locations (borings B37-B39) at concentrations greater than HRLs, HBVs or RAAs.

VOC impacts in groundwater continue to be identified throughout the saturated vertical profile above bedrock in areas downgradient of the Super Radiator Coils, Eclipse Electric and to a lesser extent the Marathon Group property. Bedrock varies from approximately 75 feet bgs to 100 feet with typical groundwater elevations between 29 feet and 45 feet bgs. The 2016 borings were generally advanced to bedrock or refusal, which resulted in observations and sampling of approximately 45 to 55 feet of saturated subsurface conditions.

The 2016 sampling confirmed groundwater impacts are present downgradient of previously identified suspected source areas. The 2016 sampling also identified additional VOC hot spots along the northeast boundary of the property currently occupied by National Tire and Battery.

The distribution of groundwater impacts are influenced by a southeast groundwater flow direction and also appear to be influenced, in part, by intermittent and discontinuous seams of fine grained clay and silt till material. The downgradient extent of the VOC groundwater plume remains partially undefined. Additional soil and groundwater sampling will aid in filling data gaps and to provide further delineation and identification of additional potential source areas.

4.2.2 Residential Wells

No VOC exceedances were identified in the groundwater samples collected from the two residences located at 5230 Interlachen Boulevard or 5017 Skyline Drive in Edina, Minnesota.

4.3 Soil Vapor Results

4.3.1 Sub-slab Soil Vapor

Sub-slab soil vapor sampling resulted in the identification of VOCs at concentrations exceeding the 10x ISV from sub-slab soil vapor samples obtained from the Ryan Company, Bohn Welding, Care Cleaners, and the current Marathon Group buildings. As a result of the exceedances of the 10x ISV values, potential soil vapor intrusion data gaps are present that should be addressed through additional soil vapor sampling.

4.3.2 Indoor Air

Indoor air sampling conducted in February and April 2016 at the Marathon Group property resulted in the identification of VOC concentrations exceeding the Industrial ISV despite the construction of a SSD system in FY16. As a result of the exceedances of the Industrial ISV values, potential indoor air data gaps are present that should be addressed through additional indoor air sampling.

5.0 Recommendations

Based on the results of the FY15 and FY16 investigations, potential source areas have been identified for further investigation with vapor intrusion, groundwater delineation and soil analytical testing. Any exceedances of applicable ISVs for indoor air sampling or sub-slab soil vapor sampling were reported to the MPCA within 24 hours of receipt of laboratory analytical data.

Because exceedances were found in the groundwater around the area of the current Marathon Group property and from sub-slab soil vapor and indoor air sampling inside the building, AECOM recommends further investigating the area to the south and east of the building using direct push sampling to collect soil and water samples. Sampling intervals consistent with those collected in FY16 are also recommended (e.g. in the depth interval of 40 to 70 feet bgs) to further delineate the extent of the soil and groundwater plumes. In addition, AECOM recommends additional soil vapor intrusion investigation relative to buildings on adjacent parcels.

Despite no exceedances being found in either of the residential wells in Edina, Minnesota, AECOM recommends a second confirmatory round of sampling consistent with what was performed in FY16 to collect groundwater samples before and after existing treatment systems.

Because of the exceedances found at Ryan Company, Bohn Welding and Care Cleaners, AECOM recommends completing additional sub-slab soil vapor sampling at all existing sub-slab vapor points; indoor air sampling is also recommended at Ryan Company and Bohn Welding. Because the building Bohn Welding has a residential unit on the second floor, indoor air sampling will be performed both at ground level and in the residential unit. Additionally, AECOM recommends expanding the vapor intrusion investigation from Care Cleaners to the northeast in the same building complex to encompass the property at 6520 Lake Street.

6.0 General Qualifications

The evaluations and opinions presented in this report were developed from consideration of the project area characteristics and interpretation of available data. AECOM's interpretation of available data is based on commonly accepted reasonable engineering judgment. AECOM's opinions were made based upon AECOM's knowledge, experience and qualifications and represent AECOM's judgment.

AECOM professional services were performed in accordance with generally accepted engineering practices. This warranty is in lieu of other warranties, either expressed or implied. AECOM assumes no responsibility for data or interpretations made by others. AECOM assumes responsibility for the accuracy of the report's contents subject to what is stated elsewhere in this section but recommends that the report be used only for the purpose intended by the client and AECOM when the report was prepared. The report may be unsuitable for other uses and reliance on its content by anyone other than the client is done at the sole risk of the user.

We appreciate the opportunity to provide environmental services to you on this project. If you have any questions regarding the contents of this report, or if we can be of further assistance, please contact Tony Coryell at 612-376-2427 (tony.coryell@aecom.com).

Tables

Table 1
Soil Analytical Results

Boring Identifiers					Chlorinated VOCs						Coal Tar/Creosote related VOCs					
Boring #	UTM Easting	UTM Northing	Depth	PID	Tetrachloro-ethene	Trichloro-ethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethene	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
				SLV	**41.5**	**2.3**	**208**	**416**	**1**	**1394**	**17**	**1048**	**2459**	**5415**	**2745**	**2733**
				Residential SRV	**72000**	**29000**	**8000**	**11000**	**800**	**20000**	**6000**	**200000**	**107000**	**45000**	**8000**	**3000**
				Industrial SRV	**131000**	**46000**	**22000**	**33000**	**2200**	**60000**	**10000**	**200000**	**305000**	**130000**	**25000**	**10000**
B21	471470.54	4976245.84	30	0.4	<53.3	<53.3	<53.3	<53.3	<53.3	<53.3	<21.3	<53.3	<53.3	<160	<53.3	<53.3
			47	0.1	<62.0	<62.0	<62.0	<62.0	<62.0	<62.0	<24.8	<62.0	<62.0	<186	<62.0	<62.0
			53	0.1	<60.2	<60.2	<60.2	<60.2	<60.2	<60.2	<24.1	<60.2	<60.2	<181	<60.2	<60.2
			78	0.3	<54.8	<54.8	<54.8	<54.8	<54.8	<54.8	<21.9	<54.8	<54.8	<164	<54.8	<54.8
			93	0.2	<57.0	<57.0	<57.0	<57.0	<57.0	<57.0	<22.8	<57.0	<57.0	<171	<57.0	<57.0
B22	471458.35	4976237.98	32	0.3	<51.3	<51.3	<51.3	<51.3	<51.3	<51.3	<20.5	<51.3	<51.3	<154	<51.3	<51.3
			79	0.2	<58.0	<58.0	<58.0	<58.0	<58.0	<58.0	<23.2	<58.0	<58.0	<174	<58.0	<58.0
			89	0.4	<60.2	<60.2	<60.2	<60.2	<60.2	<60.2	<24.1	<60.2	<60.2	<181	<60.2	<60.2
B23	471419.68	4976216.6	56	44.1	**130**	<57.5	<57.5	<57.5	<23.0	<57.5	<23.0	<57.5	<57.5	<173	<57.5	<57.5
			76	514.4	**3020**	**310**	**409**	<56.9	<22.8	<56.9	<22.8	<56.9	<56.9	<171	<56.9	<56.9
			78	2000	**170**	<59.5	**112**	<59.5	<23.8	<59.5	<23.8	<59.5	<59.5	<179	<59.5	<59.5
			93	0.8	**69**	<58.5	**262**	<58.5	<23.4	<58.5	<23.4	<58.5	<58.5	<175	<58.5	<58.5
B24	471419.21	4976201.84	51	1.8	<57.5	<57.5	<57.5	<57.5	<23.0	<57.5	<23.0	<57.5	<57.5	<173	<57.5	<57.5
			56	4.7	**95.3**	<57.3	<57.3	<57.3	<22.9	<57.3	<22.9	<57.3	<57.3	<172	<57.3	<57.3
			63	12.8	**137**	<59.1	**121**	<59.1	<23.7	<59.1	<23.7	<59.1	<59.1	<177	<59.1	<59.1
			91	4.5	<59.5	<59.5	**83.5**	<59.5	<23.8	<59.5	<23.8	<59.5	<59.5	<179	<59.5	<59.5
			96	6	<55.6	<55.6	**576**	<55.6	<22.2	<55.6	<22.2	<55.6	<55.6	<167	<55.6	<55.6
B25	471417	4976183.87	49	2000	<58.4	<58.4	<58.4	<58.4	<58.4	<58.4	<23.4	<58.4	<58.4	<175	<58.4	<58.4
			50	2000	**70.3**	<56.6	<56.6	<56.6	<56.6	<56.6	<22.7	<56.6	<56.6	<170	<56.6	<56.6
			53	2000	**152**	<57.2	<57.2	<57.2	<57.2	<57.2	<22.9	<57.2	<57.2	<171	<57.2	<57.2
			Dup-4-2	2000	**116**	<56.0	<56.0	<56.0	<56.0	<56.0	<22.4	<56.0	<56.0	<168	<56.0	<56.0
			55	2000	**99.6**	<59.9	<59.9	<59.9	<59.9	<59.9	<24.0	<59.9	<59.9	<180	<59.9	<59.9
			Dup-5	2000	**86.2**	<59.3	<59.3	<59.3	<59.3	<59.3	<23.7	<59.3	<59.3	<178	<59.3	<59.3
			58	1011	**992**	**226**	**1050**	**77.3**	<55.9	<55.9	<22.4	<55.9	<55.9	<168	<55.9	<55.9
			65	1446	**62.2**	<58.8	**85.3**	<58.8	<58.8	<58.8	<23.5	<58.8	<58.8	<177	<58.8	<58.8
			84	3.8	<60.5	<60.5	<60.5	<60.5	<24.2	<60.5	<24.2	<60.5	<60.5	<182	<60.5	<60.5
B26	471100.64	4976285.87	34	59.3	<57.2	<57.2	<57.2	<57.2	<57.2	<57.2	<22.9	<57.2	<57.2	<172	<57.2	<57.2
			47	769.2	<57.5	<57.5	<57.5	<57.5	<57.5	<57.5	<23.0	<57.5	<57.5	<172	<57.5	<57.5
			Dup-3	769.2	<62.9	<62.9	<62.9	<62.9	<62.9	<62.9	<25.1	<62.9	<62.9	<189	<62.9	<62.9
			53	3.4	<60.3	<60.3	<60.3	<60.3	<60.3	<60.3	<24.1	<60.3	<60.3	<181	<60.3	<60.3
			58	81.3	<57.1	<57.1	<57.1	<57.1	<57.1	<57.1	<22.8	<57.1	<57.1	<171	<57.1	<57.1
			Dup-4	81.3	<58.8	<58.8	<58.8	<58.8	<58.8	<58.8	<23.5	<58.8	<58.8	<176	<58.8	<58.8
			73	2.9	<52.7	<52.7	<52.7	<52.7	<52.7	<52.7	<21.1	<52.7	<52.7	<158	<52.7	<52.7
B27	471058.03	4976299.9	43	2.5	<59.4	<59.4	<59.4	<59.4	<59.4	<59.4	<23.7	<59.4	<59.4	<178	<59.4	<59.4
			45	2.5	<56.1	<56.1	<56.1	<56.1	<56.1	<56.1	<22.4	<56.1	<56.1	<168	<56.1	<56.1
			55	0.1	<58.4	<58.4	<58.4	<58.4	<58.4	<58.4	<23.3	<58.4	<58.4	<175	<58.4	<58.4
			57	0	<59.3	<59.3	<59.3	<59.3	<23.7	<59.3	<23.7	<59.3	<59.3	<178	<59.3	<59.3
			63	1.7	<61.4	<61.4	<61.4	<61.4	<24.5	<61.4	<24.5	<61.4	<61.4	<184	<61.4	<61.4
			73	3.5	<61.3	<61.3	<61.3	<61.3	<24.5	<61.3	<24.5	<61.3	<61.3	<184	<61.3	<61.3
B28	471090.97	4976274.36	23	1.1	<58.4	<58.4	<58.4	<58.4	<23.4	<58.4	<23.4	<58.4	<58.4	<175	<58.4	<58.4
			58	0.3	<60.0	<60.0	<60.0	<60.0	<24.0	<60.0	<24.0	<60.0	<60.0	<180	<60.0	<60.0
			64	0.9	<61.7	<61.7	<61.7	<61.7	<24.7	<61.7	<24.7	<61.7	<61.7	<185	<61.7	<61.7
			72	1	<58.8	<58.8	<58.8	<58.8	<23.5	<58.8	<23.5	<58.8	<58.8	<176	<58.8	<58.8
B29	471283.54	4976226.49	34	40.1	<52.2	<52.2	<52.2	<52.2	<20.9	<52.2	<52.2	<52.2	<52.2	<157	<52.2	<52.2
			53	354.7	<57.0	<57.0	<57.0	<57.0	<22.8	<57.0	<57.0	<57.0	<57.0	<171	<57.0	<57.0
			Dup-2	354.7	<59.0	<59.0	<59.0	<59.0	<23.6	<59.0	<59.0	<59.0	<59.0	<177	<59.0	<59.0
			80	2.9	<52.5	<52.5	**141**	<52.5	<21.0	<52.5	<52.5	<52.5	<52.5	<157	<52.5	<52.5
B30	471308.21	4976228.97	36	801.8	<54.8	<54.8	<54.8	<54.8	<21.9	<54.8	<54.8	<54.8	<54.8	<164	<54.8	<54.8
			45	5.8	<59.0	<59.0	<59.0	<59.0	<59.0	<59.0	<23.6	<59.0	<59.0	<177	<59.0	<59.0
			98	1.3	<58.3	<58.3	<58.3	<58.3	<23.3	<58.3	<58.3	<58.3	<58.3	<175	<58.3	<58.3
B31	471322.79	4976228.15	33	107.8	<51.2	<51.2	<51.2	<51.2	<51.2	<51.2	<20.5	<51.2	<51.2	<153	<51.2	<51.2
			47	0.9	**729**	<58.3	<58.3	<58.3	<58.3	<58.3	<23.3	<58.3	<58.3	<175	<58.3	<58.3
			52	5.2	**1300**	**180**	**88**	<58.3	<58.3	<58.3	<23.3	<58.3	<58.3	<175	<58.3	<58.3
			53	26.7	**1320**	**175**	**99.9**	<56.9	<56.9	<56.9	<22.7	<56.9	<56.9	<171	<56.9	<56.9
			83	4.9	<58.2	<58.2	**133**	<58.2	<58.2	<58.2	<23.3	<58.2	<58.2	<175	<58.2	<58.2
B32	471263.5	4976218.28	38	13.6	<54.9	<54.9	<54.9	<54.9	<54.9	<54.9	<21.9	<54.9	<54.9	<165	<54.9	<54.9
			Dup-1	13.6	<55.3	<55.3	<55.3	<55.3	<22.1	<55.3	<55.3	<55.3	<55.3	<166	<55.3	<55.3
			77	0.9	<58.1	<58.1	**65.7**	<58.1	<58.1	<58.1	<23.2	<58.1	<58.1	<174	<58.1	<58.1
			94	0	<53.0	<53.0	<53.0	<53.0	<21.2	<53.0	<53.0	<53.0	<53.0	<159	<53.0	<53.0
B37	471423.48	4976441.54	45	0.6	<57.6	<57.6	<57.6	<57.6	<23.0	<57.6	<23.0	<57.6	<57.6	<173	<57.6	<57.6
			50	0.6	<58.9	<58.9	<58.9	<58.9	<23.6	<58.9	<23.6	<58.9	<58.9	<177	<58.9	<58.9

Table 1
Soil Analytical Results

Boring Identifiers					Chlorinated VOCs						Coal Tar/Creosote related VOCs					
Boring #	UTM Easting	UTM Northing	Depth	PID	Tetrachloro-ethene	Trichloro-ethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethene	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
				SLV	**41.5**	**2.3**	**208**	**416**	**1**	**1394**	**17**	**1048**	**2459**	**5415**	**2745**	**2733**
				Residential SRV	**72000**	**29000**	**8000**	**11000**	**800**	**20000**	**6000**	**200000**	**107000**	**45000**	**8000**	**3000**
				Industrial SRV	**131000**	**46000**	**22000**	**33000**	**2200**	**60000**	**10000**	**200000**	**305000**	**130000**	**25000**	**10000**
B38	471448.95	4976432.67	42	0	<52.5	<52.5	<52.5	<52.5	<21.0	<52.5	<21.0	<52.5	<52.5	<158	<52.5	<52.5
			49	0	<58.6	<58.6	<58.6	<58.6	<23.4	<58.6	<23.4	<58.6	<58.6	<176	<58.6	<58.6
			60	0.1	<55.2	<55.2	<55.2	<55.2	<22.1	<55.2	<22.1	<55.2	<55.2	<165	<55.2	<55.2
B39	471456.06	4976440.67	53	0.2	<57.1	<57.1	<57.1	<57.1	<22.9	<57.1	<22.9	<57.1	<57.1	<171	<57.1	<57.1
			57	0.5	<59.9	<59.9	<59.9	<59.9	<24.0	<59.9	<24.0	<59.9	<59.9	<180	<59.9	<59.9
			61	0.4	<56.9	<56.9	<56.9	<56.9	<22.8	<56.9	<22.8	<56.9	<56.9	<171	<56.9	<56.9
B43	471485.91	4976160.95	49	2.7	<60.2	<60.2	<60.2	<60.2	<60.2	<60.2	<24.1	<60.2	<60.2	<181	<60.2	<60.2
			53	17.5	<61.2	<61.2	**106**	<61.2	<61.2	<61.2	<24.5	<61.2	<61.2	<184	<61.2	<61.2
			71	0.4	<59.2	<59.2	<59.2	<59.2	<59.2	<59.2	<23.7	<59.2	<59.2	<178	<59.2	<59.2
			76	5.7	<59.4	<59.4	**91.0**	<59.4	<59.4	<59.4	<23.8	<59.4	<59.4	<178	<59.4	<59.4

Notes:
concentrations are reported in micrograms per kilogram (ug/kg)
< = less than laboratory reporting limit
BOLD text indicates result is above reporting limit
YELLOW BACKGROUND = concentration exceeds SLV/SRV
SLV = Residential Soil Leaching Value established by MPCA
SRV = Soil Reference Value established by MPCA
PID = photoionization detector equipped with 11.7 electron volt lamp
Dup-4-2 = duplicate sample taken was mistakenly labeled using previous Duplicate number. This duplicate is associated with B25-S-53 and can be found in Lab Report 10341254

Table 2
Groundwater Analytical Results

Boring Identifiers					Chlorinated VOCs						Coal Tar/Creosote related VOCs					
Boring #	UTM Easting	UTM Northing	Depth	PID	Tetrachloro-ethene	Trichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Vinyl Chloride	1,1-Dichloro-ethene	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene
				HRL	5	0.4	50	40	0.2	200	2	50	200	300	NE	100
				HBV	4	NE	6	NE	NE	NE	NE	NE	NE	NE	NE	NE
				RAA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	100	NE
B21	471470.54	4976245.84	44-48*	0.1	6.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			50-54	0.1	< 5.0	7.6	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			75-79	0.3	< 5.0	< 5.0	200	11	30	< 5.0	6.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			86-90*	0.2	< 5.0	< 5.0	8.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B22	471458.35	4976237.98	76-80	0.2	< 25	< 25	840	44	80	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			86-90*	0.4	< 5.0	< 5.0	59	15	55	< 5.0	19	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B23	471419.68	4976216.6	46-50	20.8	530	< 25	260	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			50-54	3.0	790	29	210	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			54-58	44.1	1400	60	140	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			61-65	18.1	1900	130	500	< 25	35	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			74-78	514	< 25	< 25	2900	66	230	< 25	29	< 25	< 25	< 25	< 25	< 25
			78-82	2000	< 25	< 25	2900	65	230	< 25	28	< 25	< 25	< 25	< 25	< 25
			Dup-W-7	2000	< 25	< 25	2800 J	68	220	< 25	27	< 25	< 25	< 25	< 25	< 25
			89-93	0.4	< 25	< 25	2900 J	63	210	< 25	28	< 25	< 25	< 25	< 25	< 25
B24	471419.21	4976201.84	47-51*	1.8	32	39	730	< 25	31	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			51-55*	3.8	120	140	1000	27	46	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			61-65	12.8	1600	1600	5800	86	69	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			74-78	6.2	< 25	< 25	4400	110	230	< 25	39	< 25	< 25	< 25	< 25	< 25
			88-92	4.5	< 100	< 100	3400	140	200	< 100	< 100	< 100	< 100	< 100	< 100	< 100
B25	471417	4976183.87	41-45*	316	22	24	42	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			45-49	2000	110	94	97	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			54-58*	2000	4700 J	4200 J	2200 J	53	26	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			Dup-W-8*	2000	3300 J	2900 J	2000 J	56	26	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			58-62	1011	120	120	1400	59	47	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			65-69	1446	< 25	< 25	430	59	120	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			69-73	70.3	< 25	< 25	660	72	130	< 25	25	< 25	< 25	< 25	< 25	< 25
			73-77	53.7	< 25	< 25	800	94	150	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			93-97	N/A	< 25	< 25	420	130	100	< 25	< 25	< 25	< 25	< 25	< 25	< 25
B26	471100.64	4976285.87	31-35	59.3	< 5.0	39	< 5.0	9.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			44-48*	769.2	< 25	< 25	< 25	< 25	< 25	< 25	71	63	< 25	76	36	< 25
			Dup-W-6	769.2	< 25	< 25	< 25	< 25	< 25	< 25	69	60	< 25	74	35	< 25
			50-54	3.4	< 25	< 25	< 25	85	34	< 25	65	< 25	< 25	25	< 25	< 25
			54-58	81.3	< 25	< 25	< 25	74	< 25	< 25	90	46	< 25	71	< 25	< 25
			60-64	9.9	< 25	< 25	< 25	110	< 25	< 25	93	34	< 25	37	< 25	< 25
			70-74*	2.9	< 25	< 25	< 25	790	34	< 25	150	62	< 25	82	< 25	< 25
			77-81	N/A	< 25	< 25	< 25	410	< 25	< 25	150	58	< 25	31	< 25	< 25
B27	471058.03	4976299.9	42-46	2.5	< 25	< 25	320	30	85	< 25	98	150	< 25	163	88	< 25
			51-55	0.1	< 25	< 25	< 25	< 25	< 25	< 25	83	110	< 25	91	61	< 25
			55-59	0.7	< 25	< 25	< 25	< 25	< 25	< 25	78	100	< 25	96	64	< 25
			59-63	1.7	< 25	58	160	110	< 25	< 25	86	92	< 25	84	46	< 25
			65-69	0.5	< 25	190	350	300	35	< 25	120	110	< 25	121	43	< 25
			70-74	3.5	< 25	960	1900	1400	140	< 25	110	100	< 25	128	38	< 25
B28	471090.97	4976274.36	39-43	1.4	< 25	< 25	< 25	< 25	< 25	< 25	67	58	< 25	77	35	< 25
			53-57	0.2	< 5.0	< 5.0	< 5.0	11	14	< 5.0	82	23	< 5.0	50	9.4	< 5.0
			61-65*	0.9	< 25	< 25	< 25	44	< 25	< 25	140	60	< 25	36	< 25	< 25
			69-73	0.6	< 25	< 25	< 25	76	< 25	< 25	130	74	< 25	82	< 25	< 25
			77-81*	N/A	< 25	< 25	< 25	300	< 25	< 25	140	68	< 25	76	< 25	< 25
B29	471283.54	4976226.49	50-54	354.7	< 5.0	< 5.0	42 J	23	27 J	< 5.0	7.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			Dup-1*	354.7	< 5.0	< 5.0	29 J	20	19 J	< 5.0	5.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			74-78*	0.9	< 5.0	< 5.0	150	22	44	< 5.0	16	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B30	471308.21	4976228.97	41-45	0.8	400 J	17	280	12	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			94-98	2	< 25	< 25	1100	140	170	< 25	29	< 25	< 25	< 25	< 25	< 25
B31	471322.79	4976228.15	43-47	0.9	280	9.2	69	< 5.0	14	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			48-52	19.5	9100	< 100	170	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			53-57	26.7	520	350	2000	79	40	6.4	9.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			80-84*	4.9	< 25	< 25	1500	110	190	< 25	36	< 25	< 25	< 25	< 25	< 25
B32	471263.5	4976218.28	73-77	0.9	< 5.0	< 5.0	220	48	78	< 5.0	28	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			90-94	0.4	< 25	< 25	930	87	160	< 25	< 25	< 25	< 25	< 25	< 25	< 25
B33	471317.42	4976228.45	43-47	WO	250 J	11 J	38 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
			Dup-W-8-2*	WO	420 J	15 J	89 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
			48-52	WO	12000	130	120	<100	<100	<100	<100	<100	<100	<100	<100	<100
			53-57	WO	9400	520	930	66	23	<5.0	6.4	<5.0	<5.0	<5.0	<5.0	<5.0
			58-62	WO	<5.0	<5.0	21	28	14	<5.0	5.5	<5.0	<5.0	<5.0	<5.0	<5.0
			62-66*	WO	<5.0	<5.0	47	34	16	<5.0	8.8	<5.0	<5.0	<5.0	<5.0	<5.0
			66-70*	WO	<5.0	<5.0	100	37	23	<5.0	16	<5.0	<5.0	<5.0	<5.0	<5.0
B35	471338	4976261.23	46-50	WO	2100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			Dup-5	WO	2100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			50-54	WO	5900	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			Dup-W-4	WO	5800	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			54-58*	WO	5700	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			58-62	WO	3700	< 100	210	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			62-66*	WO	360	< 25	270	< 25	31	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			96-100	WO	< 100	< 100	3000	110	150	< 100	< 100	< 100	< 100	< 100	< 100	< 100
B36	471338.84	4976249.81	46-50	WO	1300	63	62	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			Dup-W-3	WO	1200	54	54	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			50-54	WO	1700	230	280	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			Dup-W-2*	WO	1700	230	270	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			54-58	WO	< 25	< 25	930	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			58-62*	WO	< 25	< 25	480	< 25	46	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			62-66*	WO	< 25	< 25	660	36	100	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			94.5-98.5	WO	< 100	< 100	2800	140	190	< 100	< 100	< 100	< 100	< 100	< 100	< 100
B37	471423.48	4976441.54	41-45	0.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			49-53	0.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B38	471448.95	4976432.67	45-49	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			56-60	0.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B39	471456.06	4976440.67	48-52	0.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			53-57	0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B41	471341.36	4976208.34	43-47	WO	3100	270	230	< 25	39	< 25	< 25	< 25	< 25	< 25	460	130
			48-52	WO	21000	1600	510	46	28	< 25	< 25	< 25	< 25	< 25	81	< 25
			53-57	WO	1300	500	620	56	39	< 25	< 25	< 25	< 25	< 25	87	25
			76-80	WO	17	< 10	500	88	170	< 10	21	< 10	< 10	< 10	17	< 10
B42	471407.87	4976177.27	41-45	WO	82	51	170	7.5	9.8	< 5.0	< 5.0	6	< 5.0	< 5.0	42	10
			45-49	WO	210	100	230	11	11	< 10	< 10	39	13	829	350	82
			54-58	WO	1800	920	1400	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
			58-62	WO	18	12	320	29	31	< 10	< 10	< 10	< 10	< 10	< 10	< 10
			65-69	WO	< 5.0	< 5.0	140	36	78	< 5.0	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			69-73	WO	< 5.0	< 5.0	180	40	74	< 5.0	14	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			73-77	WO	< 5.0	< 5.0	300	58	110	< 5.0	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
B43	471485.91	4976160.95	45-49*	0.7	< 5.0	< 5.0	78	< 5.0	7.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			49-53	2.7	< 5.0	< 5.0	150	8.6	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			53-57	17.5	< 25	< 25	920	59	100	< 25	< 25	< 25	< 25	< 25	< 25	< 25
			57-61	0.4	< 25	< 25	2400	90	180	< 25	34	< 25	< 25	< 25	< 25	< 25
			68-72*	0.4	< 25	< 25	2000	95	170	< 25	29	< 25	< 25	< 25	< 25	< 25
			73-77	10.5	< 100	< 100	1400	< 100	200	< 100	< 100	< 100	< 100	< 100	< 100	< 100
B44	471341.79	4976224.16	43-47	WO	230	26	61	<10	<10	<10	<10	<10	<10	<10	<10	<10
			Dup-W-9*	WO	290	32	70	<10	<10	<10	<10	<10	<10	<10	<10	<10
			48-52	WO	4200	<100	120	<100	<100	<100	<100	<100	<100	<100	<100	<100
			53-57	WO	1900	1100	2700	74	48	<10	11	<10	<10	<10	<10	<10
			58-62*	WO	<10	<10	300	41	73	<10	19	<10	<10	<10	<10	<10
			62-66	WO	<10	<10	420	52	94	<10	26	<10	<10	<10	<10	<10
			66-70	WO	<5.0	<5.0	750	64	120	<5.0	30	<5.0	<5.0	<5.0	<5.0	<5.0
B45	471341.16	4976202.57	43-47	WO	<5.0	<5.0	52	61	7.6	<5.0	<5.0	16	<5.0	88	280	66
			Dup-W-7-2	WO	<5.0	<5.0	56	69	8.6	<5.0	<5.0	15	<5.0	83	250	63
			48-52	WO	<5.0	<5.0	73	110	21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
			53-57	WO	<5.0	<5.0	12	20	14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
			58-62*	WO	<5.0	<5.0	25	13	16	<5.0	6.4	<5.0	<5.0	<5.0	<5.0	<5.0
			62-66	WO	<5.0	<5.0	82	25	49	<5.0	11	<5.0	<5.0	<5.0	<5.0	<5.0
			66-70	WO	<5.0	<5.0	71	23	43	<5.0	8.6	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:

All compound concentrations displayed in micrograms per kilogram (µg/kg)
< = less than laboratory reporting limit
BOLD text indicates result is above reporting limit
YELLOW BACKGROUND Exceedance of HRL/HBV/RAA
HRL = Health Risk Limit
HBV = Health Based Value
RAA = Risk Assessment Advice
NE = not established
N/A = PID reading not taken at interval
WO - No PID readings taken on water only boring
Dup-W-7-2 and Dup-W-8-2 represent two duplicate samples that were mistakenly labeled using previous Duplicate numbers. These two duplicates are found in Lab Report 16D1374
J - chemical detected, estimated value
UJ - chemical not detected, estimated reporting limit
* - all VOCs are flagged J, UJ at this interval. Individual explanations can be found in the Groundwater Data Validation Report

Table 3
Residential Water Analytical Results

				Residence 1 5230 Interlachen Boulevard			Residence 2 5017 Skyline Drive		
			Sample Location	RWS-1-Pre	RWS-1-Post	RWS-1-DW	RWS-2-Pre	RWS-2-Post	RWS-Dup-1
			Date	4/5/2016	4/5/2016	4/5/2016	4/5/2016	4/5/2016	4/5/2016
	Health Based Guidance Values								
Compounds	**HRL**	**HBV**	**RAA**						
1,1,1,2-Tetrachloroethane	**70**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	**9,000**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	**2**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	**3**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	**200,000**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	**NE**	**NE**	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	**200**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	**0.003***	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	**4**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	**NE**	**NE**	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	**NE**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	**0.004***	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	**600**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	**1**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	**5**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	**100**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	**10**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	**4,000**	**NE**	**NE**	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	**NE**	**NE**	**NE**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	**4,000**	**NE**	**NE**	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Allyl chloride	**30**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	**2**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	**6**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	**40**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	**10**	**NE**	**NE**	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Carbon tetrachloride	**1**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	**100**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	**30**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	**10**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	**700**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	**NE**	**NE**	**30**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	**NE**	**NE**	**200**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	**50**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	**1**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene (Cumene)	**300**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	**NE**	**NE**	**60**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	**5**	**NE**	**NE**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	**70**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene (PCE)	**5**	**4**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran	**NE**	**NE**	**NE**	<10	<10	<10	<10	<10	<10
Toluene	**200**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)*	**0.4**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	**2,000**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride*	**0.2**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (Total)	**300**	**NE**	**NE**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
cis-1,2-Dichloroethene (DCE)	**50**	**6**	**NE**	<1.0	<1.0	<1.0	**5.4**	**1.2**	**1.2**
cis-1,3-Dichloropropene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	**40**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	**NE**	**NE**	**NE**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
concentrations are reported in micrograms per liter (µg/L)
< = less than laboratory reporting limit
BOLD text indicates result is above reporting limit
YELLOW BACKGROUND = concentration exceeds HRL/HBV/RAA
HRL = Health Risk Limit
HBV = Health Based Value
RAA = Risk Assessment Advice
NE = not established
UJ = not detected, estimated reporting limit due to calibration issues (see Data Validation Report - Residential Water)
* = laboratory reporting limit is greater than established HRL value

Table 4
Indoor and Sub-slab Analytical Results

Chemical	CAS #	Industrial ISV	10x Industrial ISV	Acute ISV	Marathon 3356 Gorham Ave													
					SSV-MN	SSV-MS	SSV-MN-2	SSV-MS-2	SSV-1	SSV-2	SSV-3	SSV-4	SSV-5	M-SSV-1	M-SSV-2	M-SSV-3	M-SSV-4	M-SSV-5
				Date:	12/16/2014	12/16/2014	3/31/2015	3/31/2015	2/8/2016	2/8/2016	2/8/2016	2/8/2016	2/8/2016	4/11/2016	4/11/2016	4/11/2016	4/11/2016	4/11/2016
Ethylbenzene	100-41-4	3,000	30,000	10,000	13.4	12.9	<1.6	<1.6	<1.2	<1.2	<1.2	<1.2	1.8	2.2	1.8	1.7	2.1	1.6
Styrene	100-42-5	3,000	30,000	21,000	<3.0	<3.0	<1.6	<1.6	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	2.2	<1.2
Benzyl chloride	100-44-7	3	30	240	<3.7	<3.7	<2.0	<2.0	<1.5	<1.5	<1.5	<1.5	<1.4	<1.5	<1.5	<1.5	<1.4	<1.5
cis-1,3-Dichloropropene*	10061-01-5	60	600	NE	<3.2	<3.2	<1.7	<1.7	<1.3	<1.3	<1.3	<1.3	<1.2	<1.3	<1.3	<1.3	<1.2	<1.3
trans-1,3-Dichloropropene*	10061-02-6	60	600	NE	<3.2	<3.2	<1.7	<1.7	<1.3	<1.3	<1.3	<1.3	<1.2	<1.3	<1.3	<1.3	<1.2	<1.3
1,4-Dichlorobenzene	106-46-7	200	2,000	10,000	<4.2	<4.2	<2.3	<2.3	<1.7	<1.7	<1.7	<1.7	<1.6	<1.7	<1.7	<1.7	<1.6	<1.7
1,2-Dibromoethane (Ethylene dibromide)**	106-93-4	0.06	0.6	NE	<5.4	<5.4	<2.9	<2.9	<2.2	<2.2	<2.2	<2.2	<2.1	<2.2	<2.2	<2.2	<2.1	<2.2
1,3-Butadiene	106-99-0	2	20	NE	<1.6	<1.6	<0.84	<0.84	<0.63	<0.63	<0.63	<0.63	<0.60	<0.63	<0.63	<0.63	<0.60	<0.63
1,2-Dichloroethane***	107-06-2	1	10	NE	<1.1	<1.1	<0.77	<0.77	<0.57	<0.57	<0.57	<0.57	<0.55	<0.57	<0.57	<0.57	<0.55	<0.57
Vinyl acetate	108-05-4	600	6,000	NE	<2.5	<2.5	<1.3	2.6	30.9	<1.0	<1.0	<1.0	<0.96	1.6	2.4	1.9	1.7	1.2
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK	108-10-1	8,000	80,000	NE	5.7	4.2	<3.9	<3.9	<5.8	<5.8	<5.8	<5.8	<5.6	<5.8	<5.8	<5.8	<5.6	<5.8
m&p-Xylene**	179601-23-1	300	3,000	43,000	53.0	50.6	4.6	4.7	<2.5	<2.5	4.1	<2.5	4.8	8.7	7.2	7.8	8	6.8
1,3,5-Trimethylbenzene	108-67-8	20	200	NE	3.8	3.9	<1.9	<1.9	<1.4	<1.4	<1.4	<1.4	<1.3	2	1.9	1.8	1.7	1.9
Toluene (Methylbenzene)	108-88-3	10,000	100,000	37,000	4.2	5.3	10.1	12.1	1010	484	478	547	429	10.7	10.6	4.3	34.2	6.1
Chlorobenzene	108-90-7	100	1,000	NE	<3.3	<3.3	<1.8	<1.8	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Tetrahydrofuran	109-99-9	NE	NE	NE	<0.83	<0.83	3.2	3.7	<0.83	<0.83	10.2	<0.83	<0.80	<0.83	<0.83	1.5	<0.80	2
n-Hexane	110-54-3	6,000	60,000	NE	6.7	<2.5	7.8	6.9	931	286	111	677	189	6.4	20.2	3.2	21.2	8.7
Cyclohexane	110-82-7	20,000	200,000	NE	<2.4	<2.4	4.1	3.5	21.1	27.7	4.2	22.6	4.5	8.5	13.1	1.4	9.9	4
Propylene (Methylethylene)	115-07-1	8,000	80,000	NE	<0.49	<0.49	<0.65	1.1	<0.49	<0.49	<0.49	<0.49	<0.47	<1.2 UJ	<1.2 UJ	<1.2 UJ	<1.2 UJ	<1.2 UJ
1,2,4-Trichlorobenzene	120-82-1	10	100	NE	<5.2	<5.2	<7.1	<7.1	<5.2	<5.2	<5.2	<5.2	<5.1	<10.5	<10.5	<10.5	<10.1	<10.5
Dibromochloromethane	124-48-1	NE	NE	NE	<6.0	<6.0	<3.2	<3.2	<2.4	<2.4	<2.4	<2.4	<2.3	<2.4	<2.4	<2.4	<2.3	<2.4
Tetrachloroethylene (PCE)	127-18-4	30	300	20,000	19.0	<4.8	<1.3	<1.3	2.2	3.5	<0.96	<0.96	<0.92	0.96	2.2	2.4	1.3	1
Ethyl acetate	141-78-6	8,000	80,000	40,000	<2.5	<2.5	5.5	7.2	<1.0	<1.0	<1.0	<1.0	<0.98	2.9	3.2	3	20.1	2.5
n-Heptane	142-82-5	NE	NE	NE	2.9	3.1	4.8	2	1.3	<1.2	3.4	<1.2	1.4	1.6	1.3	<1.2	1.4	<1.2
cis-1,2-Dichloroethene	156-59-2	200	2,000	NE	<2.8	<2.8	<3.8	<3.8	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
trans-1,2-Dichloroethene	156-60-5	200	2,000	800	<2.8	<2.8	<1.5	<1.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Methyl-tert-butyl ether (MTBE)	1634-04-4	8,000	80,000	7,000	<2.5	<2.5	<1.4	<1.4	<5.1	<5.1	<5.1	<5.1	<4.9	<5.1	<5.1	<5.1	<4.9	<5.1
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	<4.2	<4.2	<2.3	<2.3	<1.7	<1.7	<1.7	<1.7	<1.6	43.7	54.6	94.3	23.4	36.8
Carbon tetrachloride	56-23-5	2	20	1,900	<0.89	<0.89	<1.2	<1.2	<0.89	<0.89	<0.89	<0.89	<0.86	<0.89	<0.89	<0.89	<0.86	<0.89
2-Hexanone	591-78-6	NE	NE	NE	<2.1	<2.1	1.9	2.2	<5.8	<5.8	<5.8	<5.8	<5.6	<5.8	<5.8	<5.8	<5.6	<5.8
4-Ethyltoluene	622-96-8	NE	NE	NE	<3.5	<3.5	<1.9	<1.9	1.7	<1.4	<1.4	<1.4	<1.3	1.9	1.6	1.5	1.6	2.5
Ethanol	64-17-5	42,000	420,000	180,000	120	56.9	162	320	40.7	42.3	16.2	51.7	32.6	103	105	120	129	108
2-Propanol (Isopropyl alcohol)	67-63-0	20,000	200,000	3,200	142	125	605	1450	33.0	35.4	12.4	39.0	35.1	288	306	470	359	311
Acetone	67-64-1	87,000	870,000	60,000	336	128	80.6	94.5	15.6	23.9	38.4	34.5	34.4	51.4	39.8	42.8	99.9	54
Chloroform	67-66-3	300	3,000	150	1.5	1.6	<0.93	<0.93	<0.69	3.8	<0.69	<0.69	2.3	<1.4	<1.4	<1.4	<1.3	<1.4
Benzene	71-43-2	13	130	1,000	1.2	0.66	2.2	1.9	0.93	0.95	1.5	1.4	1.5	0.95	1.2	<0.90	1.2	<0.90
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	10,000	100,000	140,000	10.7	4.1	<1.3	<1.3	4.1	3.2	<1.5	<1.5	<1.5	10.4	2.9	<1.5	2.6	<1.5
Bromomethane (Methyl bromide)	74-83-9	10	100	2,000	<1.1	<1.1	<1.5	<1.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Chloromethane (Methyl chloride)	74-87-3	300	3,000	1,000	<1.5	<1.5	0.89	<0.79	<0.58	<0.58	1.3	<0.58	<0.56	0.79	<0.58	1.3	1.4	<0.58
Chloroethane (Ethyl chloride)	75-00-3	30,000	300,000	100,000	<0.75	<0.75	<1.0	<1.0	<0.75	<0.75	<0.75	<0.75	<0.72	<0.75	<0.75	<0.75	<0.72	<0.75
Vinyl chloride	75-01-4	3	30	180,000	<0.72	<0.72	<0.49	<0.49	<0.36	<0.36	<0.36	<0.36	<0.35	<0.36	<0.36	<0.36	<0.35	<0.36
Methylene Chloride (Dichloromethane)	75-09-2	60	600	10,000	6.5	16.4	16.9	16.9	557	281	257	264	39.2	34.1	30.2	9.3	93.9	8.1
Carbon disulfide	75-15-0	2,000	20,000	6,000	<0.88	<0.88	<1.2	<1.2	<0.88	<0.88	<0.88	<0.88	<0.84	<0.88	1.1	<0.88	<0.84	<0.88
Bromoform	75-25-2	30	300	NE	<7.3	<7.3	<3.9	<3.9	<14.6	<14.6	<14.6	<14.6	<14.1	<2.9	<2.9	<2.9	<2.8	<2.9
Bromodichloromethane	75-27-4	NE	NE	NE	<1.9	<1.9	<2.5	<2.5	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9
1,1-Dichloroethane	75-34-3	1,000	10,000	NE	<1.1	<1.1	<1.5	<1.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
1,1-Dichloroethene (DCE)	75-35-4	600	6,000	NE	<2.8	<2.8	<1.5	<1.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	20,000	NE	3.6	5.9	2.6	4.7	5.9	12.3	2.2	6.2	3.4	12.5	10.8	7.4	13.5	5.6
Dichlorodifluoromethane (Freon 12)	75-71-8	600	6,000	NE	5.5	2.8	2.4	2.1	2.0	2.1	2.3	2.0	2.0	3.0	2.4	2.1	2.1	1.8
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	80,000	800,000	NE	<2.2	<2.2	<3.0	<3.0	<2.2	<2.2	<2.2	<2.2	<2.1	<2.2	<2.2	<2.2	<2.1	<2.2
Dichlorotetrafluoroethane	76-14-2	NE	NE	NE	<2.0	<2.0	<2.7	<2.7	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<1.9	<2.0
1,2-Dichloropropane	78-87-5	10	100	200	<1.3	<1.3	<1.8	<1.8	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	10,000	100,000	10,000	8.0	10.9	11.1	14.7	5.6	10.7	5.3	5.4	<4.0	9	9.6	<4.2	12.3	7
1,1,2-Trichloroethane	79-00-5	2	20	NE	<3.9	<3.9	<1.0	<1.0	<0.76	<0.76	<0.76	<0.76	<0.74	<0.76	<0.76	<0.76	<0.74	<0.76
Trichloroethylene (TCE)	79-01-6	6	60	2,000	249	250	2.6	8.2	31.3	135	7.1	10.0	14.3	21.4	35.9	1.5	10.3	9.5
1,1,2,2-Tetrachloroethane***	79-34-5	1	10	NE	<4.8	<4.8	<1.3	<1.3	<0.97	<0.97	<0.97	<0.97	<0.94	<0.97	<0.97	<0.97	<0.94	<0.97
Hexachloro-1,3-butadiene***	87-68-3	1	10	NE	<7.5	<7.5	<10.1	<10.1	<3.1	<3.1	<3.1	<3.1	<2.9	<15.1	<15.1	<15.1	<14.5	<15.1
Naphthalene	91-20-3	30	300	NE	4.8	5.0	<5.0	<5.0	<3.7	5.3	4.8	<3.7	<3.6	<7.4	<7.4	<7.4	<7.1	<7.4
o-Xylene**	95-47-6	300	3,000	43,000	8.3	8.7	<1.6	<1.6	<1.2	<1.2	1.4	<1.2	1.9	2.6	2.5	2.8	2.5	2.4
1,2-Dichlorobenzene	95-50-1	600	6,000	NE	<4.2	<4.2	<2.3	<2.3	<1.7	<1.7	<1.7	<1.7	<1.6	<1.7	<1.7	<1.7	<1.6	<1.7
1,2,4-Trimethylbenzene	95-63-6	20	200	NE	5.3	6.6	2.2	3	1.9	1.5	1.6	1.5	1.9	6.4	5.9	5.4	5.5	8

NOTES:

All compound concentrations displayed in micrograms per cubic meter (µg/m^3)
< = Less than Laboratory Reporting Limit
BOLD Text indicates result is above reporting limit
YELLOW BACKGROUND = concentration exceeds applicable ISV
Grey background and text = FY15 analytical results
* ISV based on 1,3-Dichloropropene with cas # 542-75-6
** ISV based on total xylenes with cas # 1330-20-7
*** Laboratory reporting limit is greater than established Industrial ISV
NE - Not Established
J - compound detected, estimated concentration
UJ - compound not detected, estimated reporting limit

Marathon Sub-Slab Notes:

SSV-MN was renamed SSV-1
SSV-MS was renamed SSV-4
The prefix "M-" stands for Marathon for the April, 2016 sampling event

Table 4
Indoor and Sub-slab Analytical Results

Chemical	CAS #	Industrial ISV	10x Industrial ISV	Acute ISV	Marathon 3356 Gorham Ave											
					MIA-1	MIA-2	AA-1	AA-1	IA-1	IA-2	IA-3	IA-4	M-IA-1	M-IA-2	M-IA-3	M-IA-4
				Date:	3/31/2015	3/31/2015	2/8/2016	4/11/2016	2/8/2016	2/8/2016	2/8/2016	2/8/2016	4/11/2016	4/11/2016	4/11/2016	4/11/2016
Ethylbenzene	100-41-4	3,000	30,000	10,000	2.1	<1.3	<1.2	<1.3	3.5	<1.3	<1.3	2.9	4.6	6.4	<1.4	4.5
Styrene	100-42-5	3,000	30,000	21,000	<1.3	<1.3	<1.2	<1.3	2.8	<1.3	<1.3	3.3	3.2	<4.8	<1.3	2.9
Benzyl chloride	100-44-7	3	30	240	<1.5	<1.5	<1.4	<1.5	<1.4	<1.6	<1.5	<1.7	<1.6	<5.9	<1.6	<1.6
cis-1,3-Dichloropropene*	10061-01-5	60	600	NE	<1.3	<1.3	<1.2	<1.3	<1.2	<1.4	<1.3	<1.5	<1.4	<2.1	<1.4	<1.4
trans-1,3-Dichloropropene*	10061-02-6	60	600	NE	<1.3	<1.3	<1.2	<1.3	<1.2	<1.4	<1.3	<1.5	<1.4	<5.2	<1.4	<1.4
1,4-Dichlorobenzene	106-46-7	200	2,000	10,000	<1.8	<1.8	<1.6	<1.8	<1.6	<1.8	<1.8	<2.0	<1.8	<6.8	<1.9	<1.8
1,2-Dibromoethane (Ethylene dibromide)**'	106-93-4	0.06	0.6	NE	<2.2	<2.2	<2.1	<2.2	<2.1	<2.3	<2.2	<2.5	<2.3	<3.5	<2.4	<2.3
1,3-Butadiene	106-99-0	2	20	NE	<0.65	<0.65	<0.60	<0.65	<0.60	<0.67	<0.65	<0.72	<0.67	<1.0	<0.70	<0.67
1,2-Dichloroethane***	107-06-2	1	10	NE	<0.59	<0.59	<0.55	<0.59	<0.55	<0.61	<0.59	<0.66	<0.61	<0.92	<0.64	<0.61
Vinyl acetate	108-05-4	600	6,000	NE	1.1	<1.0	<0.96	<1.0	<0.96	<1.1	<1.0	<1.2	2.7	<1.6	<1.1	2.3
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK	108-10-1	8,000	80,000	NE	<3.0	<3.0	<5.6	<6.0	<5.6	<6.2	<6.0	<6.7	<6.2	<9.3	<6.5	<6.2
m&p-Xylene**	179601-23-1	300	3,000	43,000	8.5	3.6	<2.4	<2.5	10.1	<2.6	<2.5	8.6	16.2	26.9	2.9	16.9
1,3,5-Trimethylbenzene	108-67-8	20	200	NE	<1.4	<1.4	<1.3	<1.4	14.1	<1.5	<1.4	8.2	4.9	3.2	<1.5	4
Toluene (Methylbenzene)	108-88-3	10,000	100,000	37,000	32.4	46.6	28.4	<1.1	1550	85.0	116	1000	29.8	55.4	5.3	31.8
Chlorobenzene	108-90-7	100	1,000	NE	<1.4	<1.4	<1.3	<1.4	<1.3	<1.4	<1.4	<1.5	<1.4	<2.1	<1.5	<1.4
Tetrahydrofuran	109-99-9	NE	NE	NE	<0.86	<0.86	<0.80	<0.86	<0.80	<0.89	<0.86	<0.97	<0.89	<1.3	1.2	<0.89
n-Hexane	110-54-3	6,000	60,000	NE	9.1	139	25.9	<1.0	692	54.1	53.0	470	48	263	5.9	35.5
Cyclohexane	110-82-7	20,000	200,000	NE	3	5.4	1.3	<1.0	54.4	3.1	3.6	33.8	24.8	13.9	3	18.9
Propylene (Methylethylene)	115-07-1	8,000	80,000	NE	<0.50	<0.50	<0.47	<1.3	<0.47	<0.52	<0.50	<0.56	<1.3 UJ	<0.78	<1.4 UJ	<1.3 UJ
1,2,4-Trichlorobenzene	120-82-1	10	100	NE	<5.4	<5.4	<5.1	<10.9	<5.1	<5.6	<5.4	<6.1	<11.2	<16.9	<11.7	<11.2
Dibromochloromethane	124-48-1	NE	NE	NE	<2.5	<2.5	<2.3	<2.5	<2.3	<2.6	<2.5	<2.8	<2.6	<19.4	<2.7	<2.6
Tetrachloroethylene (PCE)	127-18-4	30	300	20,000	<0.99	<0.99	<0.92	<0.99	<0.92	<1.0	<0.99	<1.1	<1.0	13.6	<1.1	<1.0
Ethyl acetate	141-78-6	8,000	80,000	40,000	2.9	3	<0.98	<1.1	<0.98	<1.1	<1.1	<1.2	1.8	<1.6	<1.1	4.8
n-Heptane	142-82-5	NE	NE	NE	4.3	2.3	<1.1	<1.2	3.4	<1.2	<1.2	2.7	2.6	11.5	<1.3	2.8
cis-1,2-Dichloroethene	156-59-2	200	2,000	NE	<2.9	<2.9	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3	<1.2	<1.8	<1.3	<1.2
trans-1,2-Dichloroethene	156-60-5	200	2,000	800	<1.2	<1.2	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3	<1.2	<1.8	<1.3	<1.2
Methyl-tert-butyl ether (MTBE)	1634-04-4	8,000	80,000	7,000	<1.1	<1.1	<4.9	<5.3	<4.9	<5.5	<5.3	<5.9	<5.5	<8.2	<5.7	<5.5
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	<1.8	<1.8	<1.6	<1.8	<1.6	<1.8	<1.8	<2.0	<1.8	11	<1.9	<1.8
Carbon tetrachloride	56-23-5	2	20	1,900	<0.92	<0.92	<0.86	<0.92	<0.86	<0.95	<0.92	<1.0	<0.95	3.4	<0.99	<0.95
2-Hexanone	591-78-6	NE	NE	NE	<1.2	<1.2	<5.6	<6.0	<5.6	<6.2	<6.0	<6.7	<6.2	<9.3	<6.5	<6.2
4-Ethyltoluene	622-96-8	NE	NE	NE	<1.4	<1.4	<1.3	<1.4	18.4	<1.5	1.6	10.7	5.2	3.3	<1.6	4.1
Ethanol	64-17-5	42,000	420,000	180,000	96.4	35.7	15.6	<2.8	30.2	52.4	71.2	80.2	26.7	68.5	46	78.4
2-Propanol (Isopropyl alcohol)	67-63-0	20,000	200,000	3,200	25.7	3.4	7.3	<3.6	<3.4	5.4	26.4	5.2	5.2	802	<3.9	9.2
Acetone	67-64-1	87,000	870,000	60,000	75.6	71.5	15.8	<3.5	115	35.2	37.2	89.6	84.6	110	72.6	55.6
Chloroform	67-66-3	300	3,000	150	<0.71	<0.71	<0.66	<1.4	<0.66	<0.74	<0.71	<0.80	<1.5	<1.1	<1.5	<1.5
Benzene	71-43-2	13	130	1,000	1.1	1.7	<0.44	<0.94	1.5	0.91	0.49	2.1	1.7	8.9	<1.0	2.5
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	10,000	100,000	140,000	1.7	1.6	<1.5	<1.6	5.7	<1.7	<1.6	2.9	5.9	<2.5	<1.7	2.9
Bromomethane (Methyl bromide)	74-83-9	10	100	2,000	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.3	<1.2	<1.8	<1.2	<1.2
Chloromethane (Methyl chloride)	74-87-3	300	3,000	1,000	2	1.8	0.82	2.4	<0.56	2.4 J	1.1	<0.68	<0.63	4.2	1.9	<0.63
Chloroethane (Ethyl chloride)	75-00-3	30,000	300,000	100,000	<0.78	<0.78	<0.72	<0.78	<0.72	<0.80	<0.78	<0.87	<0.80	<1.2	<0.84	<0.80
Vinyl chloride	75-01-4	3	30	180,000	<0.37	<0.37	<0.35	<0.37	<0.35	<0.39	<0.37	<0.42	<0.39	<0.58	<0.40	<0.39
Methylene Chloride (Dichloromethane)	75-09-2	60	600	10,000	46.6	405	<4.7	<5.1	1700	280	121	1150	39.3	<212	7.6	62.9
Carbon disulfide	75-15-0	2,000	20,000	6,000	<0.91	5.1	<0.84	<0.91	<0.84	<0.94	<0.91	<1.0	<0.94	<1.4	<0.98	<0.94
Bromoform	75-25-2	30	300	NE	<3.0	<3.0	<14.1	<3.0	<14.1	<15.7	<15.1	<16.9	<3.1	<11.8	<3.3	<3.1
Bromodichloromethane	75-27-4	NE	NE	NE	<2.0	<2.0	<1.8	<2.0	<1.8	<2.0	<2.0	<2.2	<2.0	<3.0	<2.1	<2.0
1,1-Dichloroethane	75-34-3	1,000	10,000	NE	<1.2	<1.2	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3	<1.2	<1.8	<1.3	<1.2
1,1-Dichloroethene (DCE)	75-35-4	600	6,000	NE	<1.2	<1.2	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3	<1.2	<1.8	<1.3	<1.2
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	20,000	NE	15.4	4.2	<1.5	<1.6	8.0	1.9	1.6	8.7	16.5	5	7.7	13.8
Dichlorodifluoromethane (Freon 12)	75-71-8	600	6,000	NE	1.8	3.3	2.3	1.8	2.2	2.1 J	2.1	2.5	1.7	4	2	1.9
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	80,000	800,000	NE	<2.3	<2.3	<2.1	<2.3	<2.1	<2.4	<2.3	<2.6	<2.4	<3.6	<2.5	<2.4
Dichlorotetrafluoroethane	76-14-2	NE	NE	NE	<2.0	<2.0	<1.9	<2.0	<1.9	<2.1	<2.0	<2.3	<2.1	<3.2	<2.2	<2.1
1,2-Dichloropropane	78-87-5	10	100	200	<1.4	<1.4	<1.3	<1.4	<1.3	<1.4	<1.4	<1.5	<1.4	<2.1	<1.5	<1.4
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	10,000	100,000	10,000	12.3	6.3	<4.0	<4.3	8.0	9.9	11.8	49.3	21.3	<6.7	5.2	14.7
1,1,2-Trichloroethane	79-00-5	2	20	NE	<0.80	<0.80	<0.74	<0.79	<0.74	<0.82	<0.79	<0.89	<0.82	<1.2	<0.85	<0.82
Trichloroethylene (TCE)	79-01-6	6	60	2,000	3.2	1.4	<0.74	<0.79	109	4.7	7.0	54.8	26.9	12.4	2.5	15.2
1,1,2,2-Tetrachloroethane***	79-34-5	1	10	NE	<1.0	<1.0	<0.94	<1.0	<0.94	<1.0	<1.0	<1.1	<1.0	<1.6	<1.1	<1.0
Hexachloro-1,3-butadiene***	87-68-3	1	10	NE	<7.8	<7.8	<2.9	<15.6	<2.9	<3.3	<3.2	<3.5	<16.2	<4.9	<16.8	<16.2
Naphthalene	91-20-3	30	300	NE	<3.8	<3.8	<3.6	<7.7	<3.6	<4.0	<3.8	<4.3	<7.9	11.2	<8.3	<7.9
o-Xylene**	95-47-6	300	3,000	43,000	2.8	1.3	<1.2	<1.3	4.8	<1.3	<1.3	3.6	4.9	10.2	<1.4	4.9
1,2-Dichlorobenzene	95-50-1	600	6,000	NE	<1.8	<1.8	<1.6	<1.8	<1.6	<1.8	<1.8	<2.0	<1.8	<2.7	<1.9	<1.8
1,2,4-Trimethylbenzene	95-63-6	20	200	NE	3.8	<1.4	<1.3	<1.4	41.5	2.8	3.4	24.2	17.3	10.3	3	14.4

NOTES:

All compound concentrations displayed in micrograms per cubic meter ($\mu g/m^3$)
< = Less than Laboratory Reporting Limit
BOLD Text indicates result is above reporting limit
YELLOW BACKGROUND = concentration exceeds applicable ISV
Grey background and text = FY15 analytical results
* ISV based on 1,3-Dichloropropene with cas # 542-75-6
** ISV based on total xylenes with cas # 1330-20-7
*** Laboratory reporting limit is greater than established Industrial ISV
NE - Not Established
J - compound detected, estimated concentration
UJ - compound not detected, estimated reporting limit

Marathon Indoor/Ambient Air Notes:

MIA-1, IA-1 and M-IA-1 are all the same location
MIA-2, IA-3 and M-IA-3 are all the same location
AA-1 was collected at the same location during the February and April sampling events

Table 4
Indoor and Sub-slab Analytical Results

Chemical	CAS #	Industrial ISV	10x Industrial ISV	Acute ISV	Ryan Company, Inc. 3361 Republic					Bohn Welding 6600 Lake Street		Care Cleaners Building 6528 Lake Street							
					R-SSV-1	R-SSV-2	R-SSV-3	R-SSV-4	R-SSV-5	B-SSV-1/ SSV-37	B-SSV-2/ SSV-38	CC-SSV-1/ SSV-29	CC-SSV-2/ SSV-30	CC-SSV-3/ SSV-31	CC-SSV-4/ SSV-32	CC-SSV-5/ SSV-33	CC-SSV-6/ SSV-34	CC-SSV-7/ SSV-35	CC-SSV-8/ SSV-36
				Date:	2/19/2016	2/19/2016	2/19/2016	2/19/2016	2/19/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016
Ethylbenzene	100-41-4	3,000	30,000	10,000	**5.7**	**5.5**	**3.4**	**4.2**	**4.7**	**6.1**	**25.4**	**31.3**	**10.5**	**26.5**	**22.8**	**13.5**	**11.6**	**16.6**	**15.7**
Styrene	100-42-5	3,000	30,000	21,000	<1.2	<1.3	<1.2	<1.2	<1.2	**3.1**	**8.0**	**7.7**	**4.7**	**5.1**	**7.3**	**5.1**	**4.3**	**5.5**	**4.2**
Benzyl chloride	100-44-7	3	30	240	<1.4	<1.5	<1.5	<1.5	<1.5	<3.5	<3.7	<3.8	<3.7	<3.7	<3.8	<3.8	<3.5	<3.7	<3.8
cis-1,3-Dichloropropene*	10061-01-5	60	600	NE	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	**6.0**	<1.3	<1.3	**1.9**	<1.3	<1.3	<1.2	<1.3	<1.3
trans-1,3-Dichloropropene*	10061-02-6	60	600	NE	<1.2	<1.3	<1.3	<1.3	<1.3	<3.1	<3.2	<3.3	<3.2	<3.2	<3.3	<3.3	<3.1	<3.2	<3.3
1,4-Dichlorobenzene	106-46-7	200	2,000	10,000	<1.6	<1.8	<1.7	<1.7	<1.7	<4.1	<679	<704	<340	**178**	**216**	<562	**161**	<2720	<4.4
1,2-Dibromoethane (Ethylene dibromide)**	106-93-4	0.06	0.6	NE	<2.1	<2.2	<2.2	<2.2	<2.2	<2.1	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.1	<2.2	<2.2
1,3-Butadiene	106-99-0	2	20	NE	<0.60	<0.65	<0.63	<0.63	<0.63	<0.60	<0.63	<0.65	<0.63	<0.63	<0.65	<0.65	<0.60	<0.63	<0.65
1,2-Dichloroethane***	107-06-2	1	10	NE	<0.55	<0.59	<0.57	<0.57	<0.57	<0.55	<0.57	**8.5**	**8.1**	<0.57	<0.59	<0.59	**0.72**	<0.57	<0.59
Vinyl acetate	108-05-4	600	6,000	NE	<0.96	<1.0	<1.0	**1.0**	<1.0	<0.96	**15.9**	<1.0	<1.0	<1.0	**10.7**	<1.0	<0.96	**14.1**	<1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK	108-10-1	8,000	80,000	NE	<5.6	<6.0	<5.8	<5.8	<5.8	<5.6	**28.7**	**20.1**	<5.8	<5.8	**16.4**	<6.0	<5.6	<5.8	<6.0
m&p-Xylene**	179601-23-1	300	3,000	43,000	**21.8**	**21.1**	**13.2**	**17.2**	**18.7**	**25.7**	**106**	**117**	**43.1**	**105**	**93.0**	**55.4**	**47.4**	**67.3**	**67.6**
1,3,5-Trimethylbenzene	108-67-8	20	200	NE	**1.8**	**1.8**	<1.4	**1.5**	**1.5**	**2.0**	**5.4**	**8.3**	**3.4**	**5.9**	**4.8**	**3.6**	**3.2**	**5.9**	**4.0**
Toluene (Methylbenzene)	108-88-3	10,000	100,000	37,000	**24.6**	**23.7**	**21.3**	**18.9**	**20.4**	**59.7**	**543**	**180**	**160**	**720**	**108**	<355 J	**435**	<685	<710 J
Chlorobenzene	108-90-7	100	1,000	NE	<1.3	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.4	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	<1.4
Tetrahydrofuran	109-99-9	NE	NE	NE	**2.6**	<0.86	**1.5**	**3.6**	**2.0**	<0.80	<0.83	<0.86	<0.83	<0.83	**29.5**	<0.86	<0.80	<0.83	**2.6**
n-Hexane	110-54-3	6,000	60,000	NE	**4.3**	**4.3**	**5.1**	**7.1**	**3.3**	**75.9**	**27.5**	<1.0	**16.2**	**14.1**	<1.0	<1.0	**52.8**	<1.0	**5.7**
Cyclohexane	110-82-7	20,000	200,000	NE	**2.4**	**3.4**	**2.2**	**1.8**	**1.9**	**6.2**	<0.97	<1.0	**5.7**	<0.97	<1.0	**2.8**	**9.3**	<0.97	**3.2**
Propylene (Methylethylene)	115-07-1	8,000	80,000	NE	<0.47	<0.50	<0.49	**1.3**	<0.49	<0.47	<0.49	<0.50	<0.49	<0.49	<0.50	<0.50	<0.47	<0.49	<0.50
1,2,4-Trichlorobenzene	120-82-1	10	100	NE	<5.1	<5.4	<5.2	<5.2	<5.2	<10.1	<10.5	<10.9	<10.5	<5.2	<10.9	<5.4	<10.1	<10.5	<5.4
Dibromochloromethane	124-48-1	NE	NE	NE	<2.3	<2.5	<2.4	<2.4	<2.4	<11.6	<12.0	<12.5	<12.0	<2.4	<12.5	<2.5	<11.6	<12.0	<2.5
Tetrachloroethylene (PCE)	127-18-4	30	300	20,000	<0.92	<0.99	**1.2**	**9.6**	**2.2**	**2020 J**	**358**	**7770**	**51.1**	**3480 J**	**450**	**5080**	**232**	**1500**	**47100**
Ethyl acetate	141-78-6	8,000	80,000	40,000	<0.98	<1.1	<1.0	<1.0	<1.0	**3.0**	<1.0	<1.1	<1.0	<1.0	<1.1	<1.1	<0.98	<1.0	**3.6**
n-Heptane	142-82-5	NE	NE	NE	**3.8**	**3.3**	**3.4**	**2.9**	**2.9**	**7.4**	**46.9**	**50.2**	**10.4**	**15.9**	<1.2	**8.2**	**11.5**	**9.3**	**7.1**
cis-1,2-Dichloroethene	156-59-2	200	2,000	NE	<1.1	<1.2	<1.1	<1.1	<1.1	**122**	**178**	**345**	<1.1	**528 J**	<93.3	**17.0**	**29.0**	<721	**3790 J**
trans-1,2-Dichloroethene	156-60-5	200	2,000	800	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	**1.2**	<1.1	<1.1	**8.7**	**1.7**	<1.1	**6.5**	**5.8**
Methyl-tert-butyl ether (MTBE)	1634-04-4	8,000	80,000	7,000	<4.9	<5.3	<5.1	<5.1	<5.1	<4.9	**79.1**	**69.1**	**10.3**	**45.9**	**94.2**	**21.4**	**18.3**	**22.0**	**26.7**
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	<1.6	<1.8	<1.7	<1.7	<1.7	**152**	**143**	**277**	**149**	**83.0**	**116**	**185**	**84.6**	**89.9**	**288**
Carbon tetrachloride	56-23-5	2	20	1,900	<0.86	<0.92	<0.89	<0.89	<0.89	**1.9**	**3.6**	<1.8	**1.8**	**3.8**	<1.8	<0.92	**1.9**	<1.8	<0.92
2-Hexanone	591-78-6	NE	NE	NE	<5.6	<6.0	<5.8	<5.8	<5.8	<5.6	<5.8	<6.0	<5.8	<5.8	**6.1**	<6.0	<5.6	<5.8	<6.0
4-Ethyltoluene	622-96-8	NE	NE	NE	**2.5**	**2.4**	**1.5**	**2.6**	**2.1**	**3.2**	**9.3**	**13.4**	**3.7**	**10.0**	**7.3**	**4.3**	**4.2**	**6.9**	**5.4**
Ethanol	64-17-5	42,000	420,000	180,000	**65.4**	**28.1**	**26.8**	**40.9**	**41.6**	<1.3	<1.3	<1.4	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	<1.4
2-Propanol (Isopropyl alcohol)	67-63-0	20,000	200,000	3,200	**238**	**175**	**117**	**142**	**168**	**845000 J**	**897000 J**	**200000 J**	**535000 J**	**472000 J**	**19500**	**323000 J**	**580000 J**	**949000 J**	**430000 J**
Acetone	67-64-1	87,000	870,000	60,000	**90.1**	**42.7**	**22.8**	**60.7**	**60.1**	**217**	**943 J**	**980 J**	**310**	**356**	**1010 J**	**147**	**401**	**300**	**216**
Chloroform	67-66-3	300	3,000	150	**0.91**	<0.71	<0.69	<0.69	<0.69	**1.4**	**4.7**	**3.0**	<0.69	**2.0**	**11.9**	**11.4**	**1.9**	**6.2**	**10.8**
Benzene	71-43-2	13	130	1,000	**4.2**	**5.7**	**3.1**	**2.7**	**3.0**	**4.7**	**8.5**	**9.2**	**4.2**	**8.6**	**8.1**	**3.4**	**7.9**	**4.2**	**3.4**
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	10,000	100,000	140,000	<1.5	**6.7**	**2.2**	**3.6**	**2.7**	<1.5	<1.5	<1.6	**18.7**	**1.7**	<1.6	<1.6	<1.5	<1.5	1.6
Bromomethane (Methyl bromide)	74-83-9	10	100	2,000	<1.1	<1.1	<1.1	<1.1	<1.1	**1.3**	<1.1	**1.4**	<1.1	<1.1	<1.1	<1.1	**9.5**	<1.1	<1.1
Chloromethane (Methyl chloride)	74-87-3	300	3,000	1,000	<0.56	<0.60	<0.58	<0.58	<0.58	**3.0**	**3.7**	**6.6**	**1.3**	**2.3**	**2.4**	<0.60	**8.9**	<0.58	<0.60
Chloroethane (Ethyl chloride)	75-00-3	30,000	300,000	100,000	<0.72	<0.78	<0.75	<0.75	<0.75	<0.72	<0.75	<0.78	<0.75	<0.75	<0.78	<0.78	<0.72	<0.75	<0.78
Vinyl chloride	75-01-4	3	30	180,000	<0.35	<0.37	<0.36	<0.36	<0.36	<0.35	<0.36	<0.37	<0.36	<0.36	<0.37	<0.37	<0.35	<0.36	<0.37
Methylene Chloride (Dichloromethane)	75-09-2	60	600	10,000	<4.7	<5.1	**121**	**58.4**	<4.9	**423**	**47.2**	**41.9**	**291**	**20.3**	**36.8**	<5.1	**567**	<4.9	<5.1
Carbon disulfide	75-15-0	2,000	20,000	6,000	<0.84	<0.91	<0.88	**5.8**	<0.88	**2.6**	**1.3**	<0.91	<0.88	<0.88	<0.91	**4.8**	**1.0**	**0.94**	**1.1**
Bromoform	75-25-2	30	300	NE	<2.8	<3.0	<2.9	<2.9	<2.9	<7.0	<7.3	<7.6	<7.3	<2.9	<7.6	<3.0	<7.0	<7.3	<3.0
Bromodichloromethane	75-27-4	NE	NE	NE	<1.8	<2.0	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0	<1.9	<1.9	**3.9**	**3.2**	<1.8	<1.9	<2.0
1,1-Dichloroethane	75-34-3	1,000	10,000	NE	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.2	<1.2	<1.1	<1.1	<1.2
1,1-Dichloroethene (DCE)	75-35-4	600	6,000	NE	<1.1	<1.2	<1.1	<1.1	<1.1	**9.5**	**14.4**	**6.6**	<1.1	<1.1	**130**	<1.2	<1.1	**63.6**	**55.4**
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	20,000	NE	<1.5	<1.6	**2.0**	**2.2**	<1.6	**2.3**	**3.9**	**5.4**	**2.4**	**1.7**	**6.4**	<1.6	**4.2**	**2.7**	**1.9**
Dichlorodifluoromethane (Freon 12)	75-71-8	600	6,000	NE	**3.3**	<1.5	<1.4	**4.9**	**1.8**	**1.5**	**4.4**	**5.7**	**1.7**	**3.4**	**6.7**	**1.6**	**2.2**	**2.4**	**4.3**
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	80,000	800,000	NE	<2.1	<2.3	<2.2	<2.2	<2.2	<2.1	<2.2	<2.3	<2.2	<2.2	<2.3	<2.3	<2.1	<2.2	<2.3
Dichlorotetrafluoroethane	76-14-2	NE	NE	NE	<1.9	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0
1,2-Dichloropropane	78-87-5	10	100	200	<1.3	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.4	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	**5.8**
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	10,000	100,000	10,000	<4.0	<4.3	<4.2	**5.7**	<4.2	**20.9**	**162**	**143**	**25.5**	**107**	**181**	**45.2**	**34.7**	**42.1**	**45.2**
1,1,2-Trichloroethane	79-00-5	2	20	NE	<0.74	<0.79	<0.76	<0.76	<0.76	<0.74	<0.76	<0.79	<0.76	<0.76	<0.79	<0.79	<0.74	<0.76	<0.79
Trichloroethylene (TCE)	79-01-6	6	60	2,000	**15.3**	**26.3**	**49.5**	**117**	**41.1**	**131**	**154**	**406**	**5.6**	**181**	<63.4	**26.1**	**31.1**	<489	**2670 J**
1,1,2,2-Tetrachloroethane***	79-34-5	1	10	NE	<0.94	<1.0	<0.97	<0.97	<0.97	<0.94	<0.97	<1.0	<0.97	<0.97	<1.0	<1.0	<0.94	<0.97	<1.0
Hexachloro-1,3-butadiene***	87-68-3	1	10	NE	<2.9	<3.2	<3.1	<3.1	<3.1	<2.9	<3.1	<3.2	<3.1	<3.1	<3.2	<3.2	<2.9	<3.1	<3.2
Naphthalene	91-20-3	30	300	NE	<3.6	<3.8	<3.7	<3.7	<3.7	**6.1**	**5.7**	**6.3**	**6.4**	<3.7	**3.9**	<3.8	**6.3**	**10.1**	<3.8
o-Xylene**	95-47-6	300	3,000	43,000	**7.3**	**7.0**	**4.4**	**5.6**	**6.2**	**8.9**	**29.5**	**34.4**	**13.9**	**30.9**	**27.1**	**16.9**	**14.3**	**21.0**	**20.6**
1,2-Dichlorobenzene	95-50-1	600	6,000	NE	<1.6	<1.8	<1.7	<1.7	<1.7	<1.6	<1.7	<1.8	<1.7	<4.2	<1.8	<4.4	<1.6	<1.7	<4.4
1,2,4-Trimethylbenzene	95-63-6	20	200	NE	**7.6**	**7.1**	**4.1**	**6.8**	**6.3**	**8.4**	**16.3**	**27.3**	**8.2**	**14.1**	**5.3**	**7.1**	**8.7**	**11.0**	**13.1**

NOTES:

All compound concentrations displayed in micrograms per cubic meter (µg/m^3)
< = Less than Laboratory Reporting Limit
BOLD Text indicates result is above reporting limit
YELLOW BACKGROUND = concentration exceeds applicable ISV
Grey background and text = FY15 analytical results
* ISV based on 1,3-Dichloropropene with cas # 542-75-6
** ISV based on total xylenes with cas # 1330-20-7
*** Laboratory reporting limit is greater than established Industrial ISV
NE - Not Established
J - compound detected, estimated concentration
UJ - compound not detected, estimated reporting limit

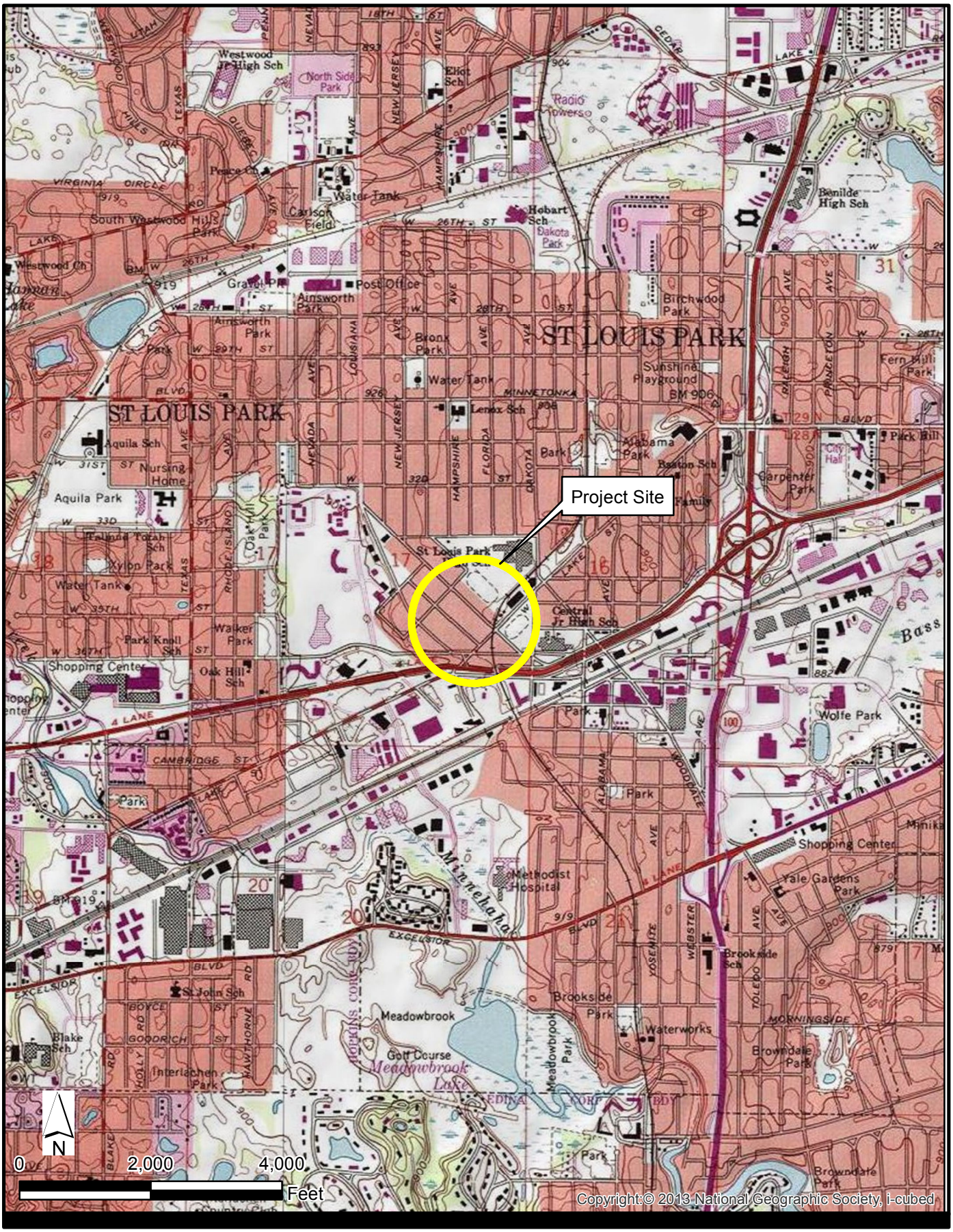
Ryan Company, Inc. Notes:

All VOCs for R-SSV-3 are flagged as J, UJ

Bohn Welding and Care Cleaners Notes:

CC-SSV-1 through -8 were renamed from SSV-29 through -36 after the sampling event
B-SSV-1 and B-SSV-2 were renamed from SSV-37 and -38 during the sampling event
All VOCs for SSV-29 and SSV-32 are flagged as J, UJ

Figures



P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 1 Topo.mxd

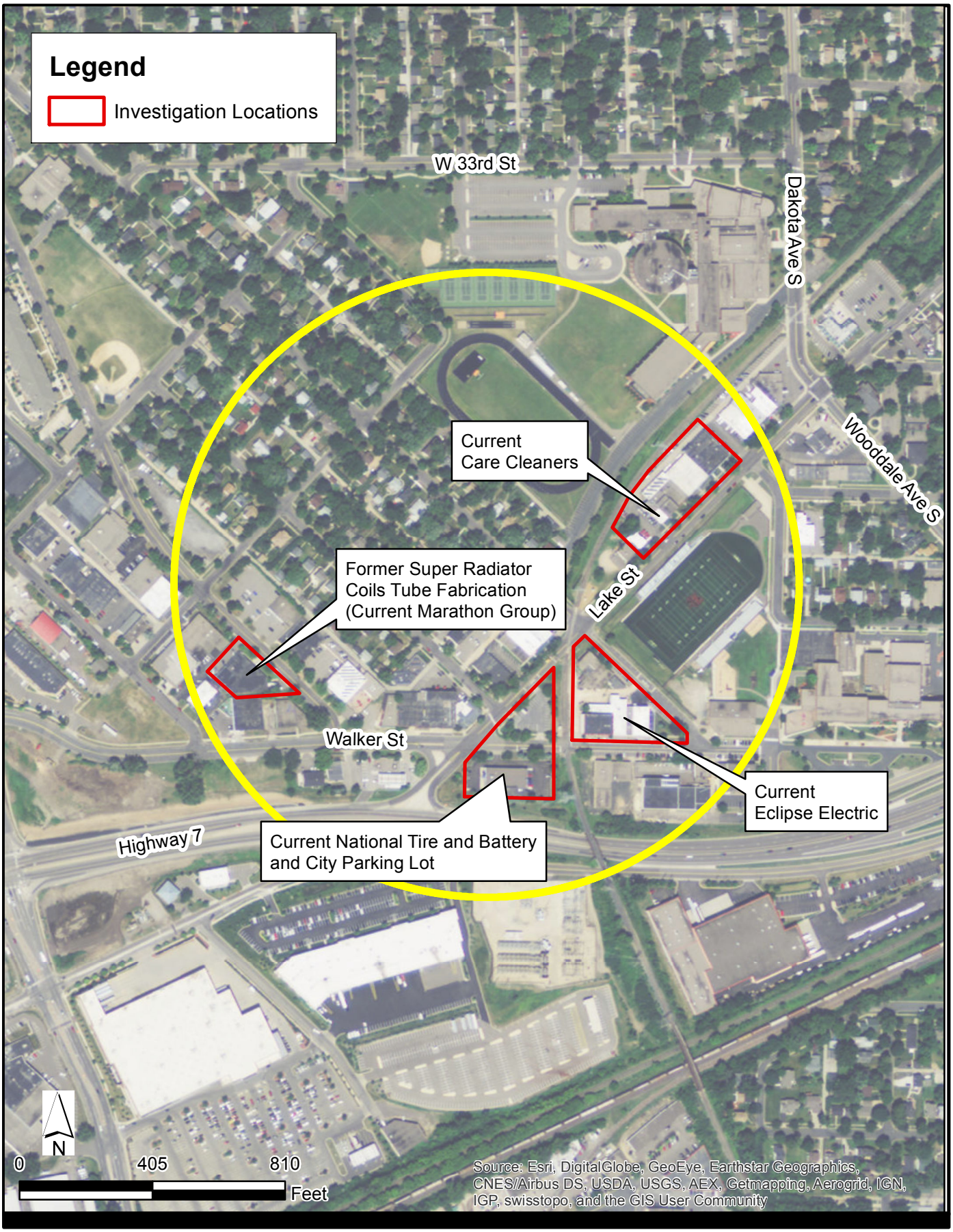
St. Louis Park
Solvent Plume Investigation

St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/3/2016

Site Topographic Overview

AECOM

Figure 1



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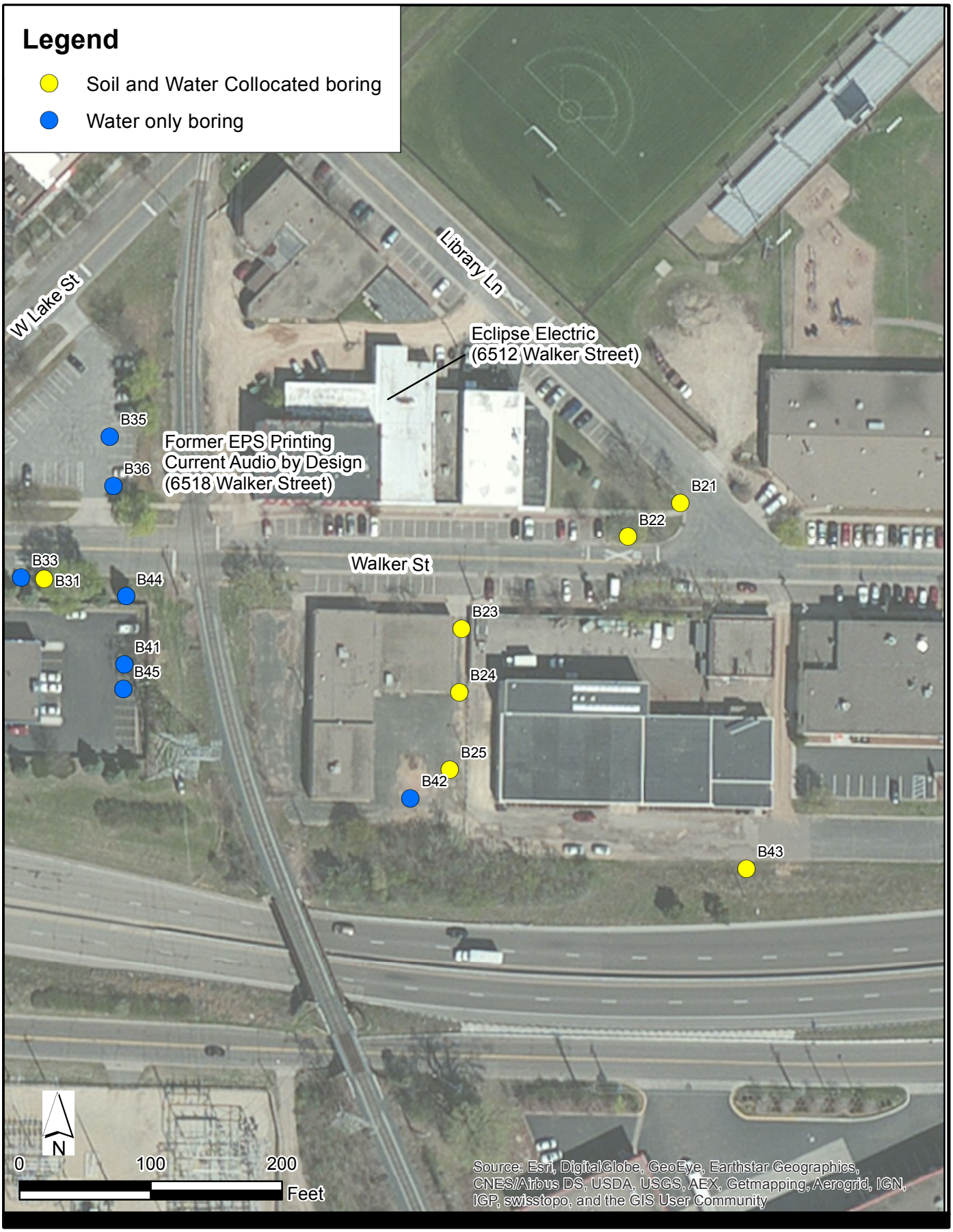
St. Louis Park
Solvent Plume Investigation

St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/1/2016

Site Aerial Overview

AECOM

Figure 2



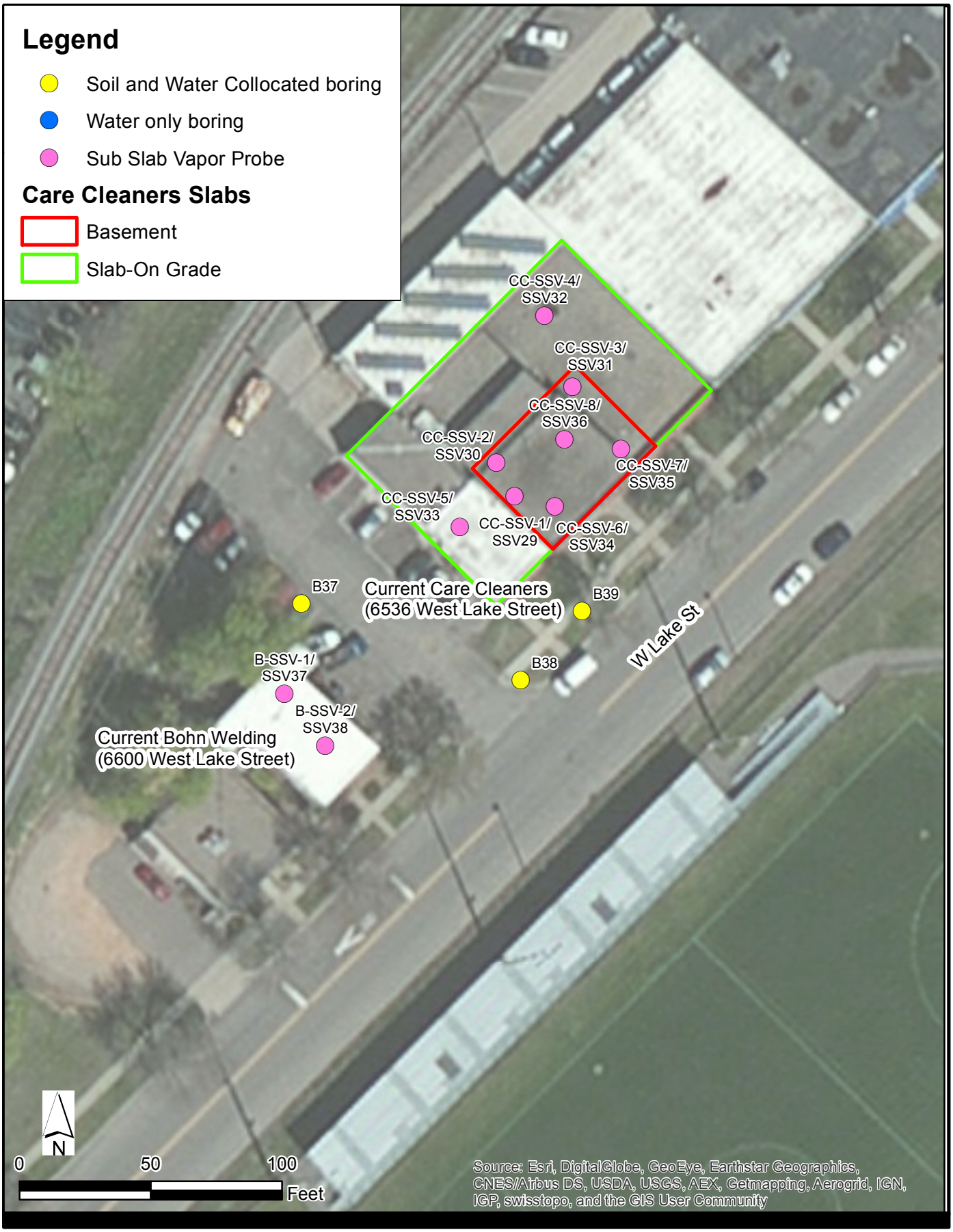
P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 3 Eclipse Electric.mxd

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/1/2016

Current Eclipse Electric Site
6512 Walker Street
2016 Borings

AECOM

Figure 3



P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 4 - Care Cleaners.mxd

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/16/2016

Current Care Cleaners
6536 West Lake Street
2016 Borings and Probes

AECOM

Figure 4

P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 5 - Ryan and Marathon.mxd

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/16/2016

Ryan Company and Marathon
3361 Republic and 3356 Gorham Avenue
2016 Borings and Probes

AECOM

Figure 5

P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 6 - National Tire and Battery.mxd

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/16/2016

Current National Tire and Battery Site
7001 West Lake Street
2016 Borings

AECOM

Figure 6

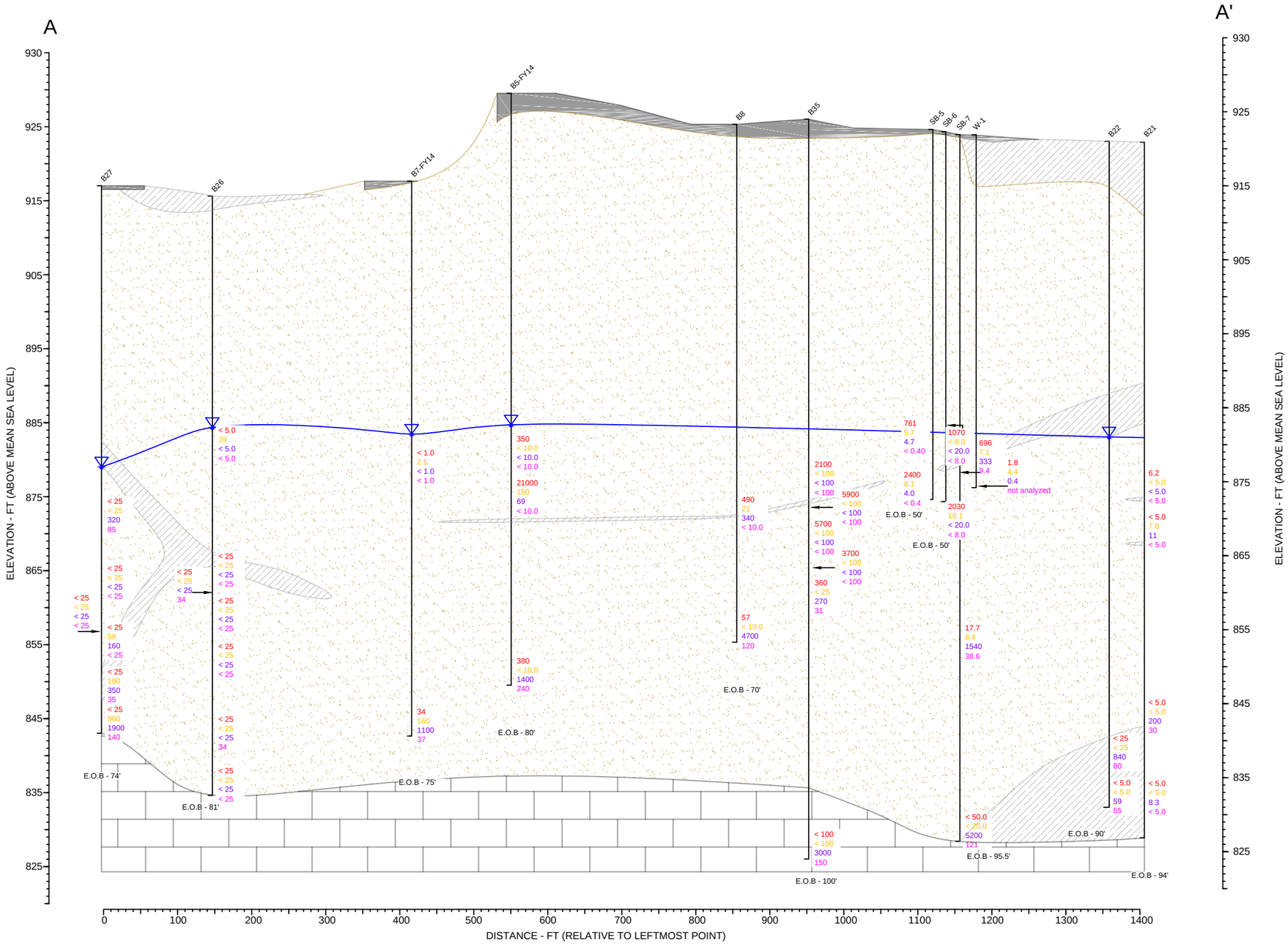
Filename: P:\Water_Env\MPCA\FY16_MPCA\FY 16 Projects\60482513 SLP Investigation FY16\900_WorkingDocs-CAD\GIS\Figure 7 - Cross Section Locations.mxd
Last saved by: KLAUSB(2016-06-14)

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 Date: 6/14/2016

Site-Wide View
Cross Section Locations

AECOM

Figure 7



Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 8A

CROSS SECTION A-A'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-27
Filename: P:\WATER_ENV\MPCA\FY16_MPCA\FY 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG

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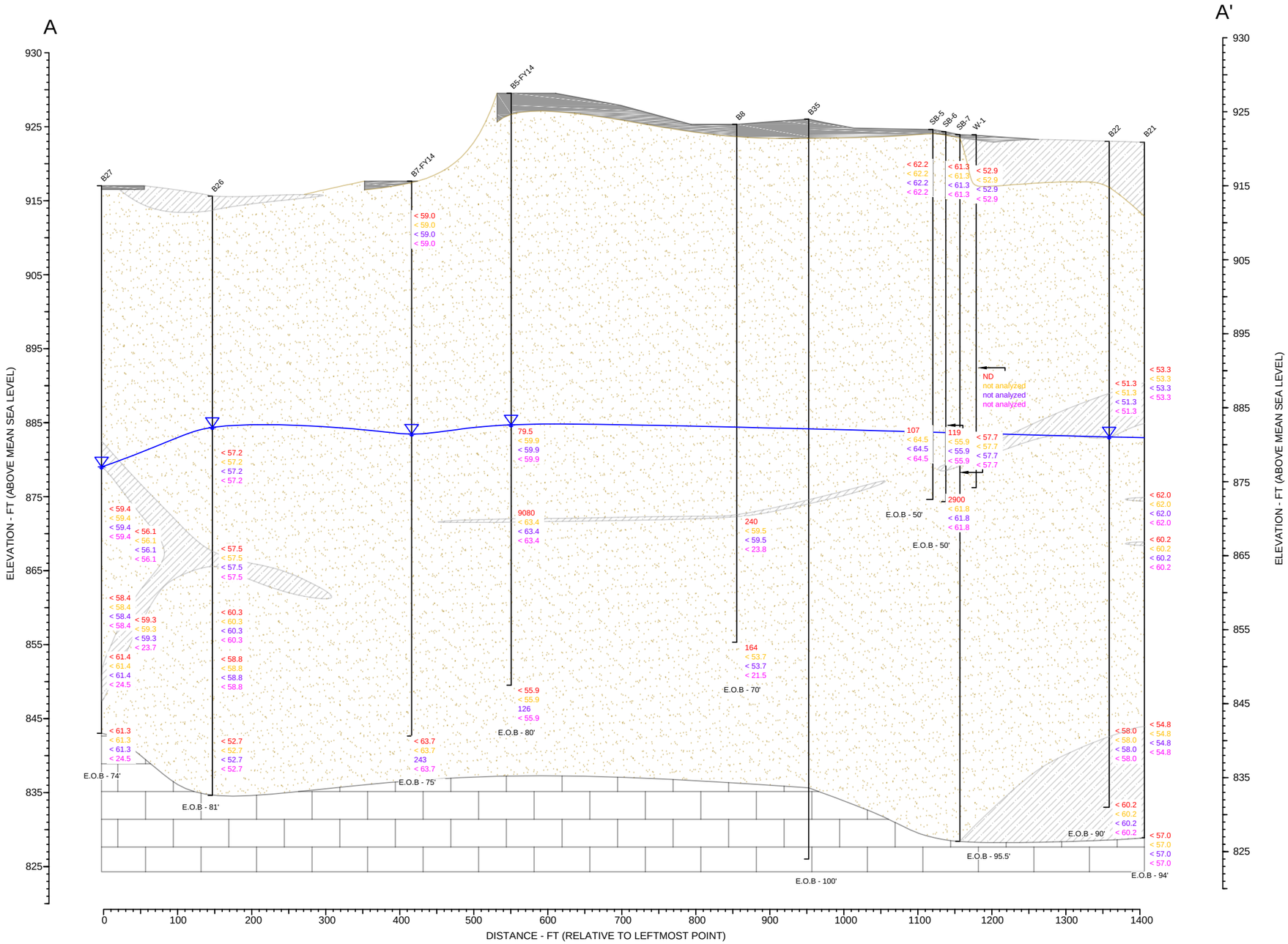

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 8B

CROSS SECTION A-A'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-27
Filename: P:\WATER_ENV\MPCAIP\16_MPCAIP 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG

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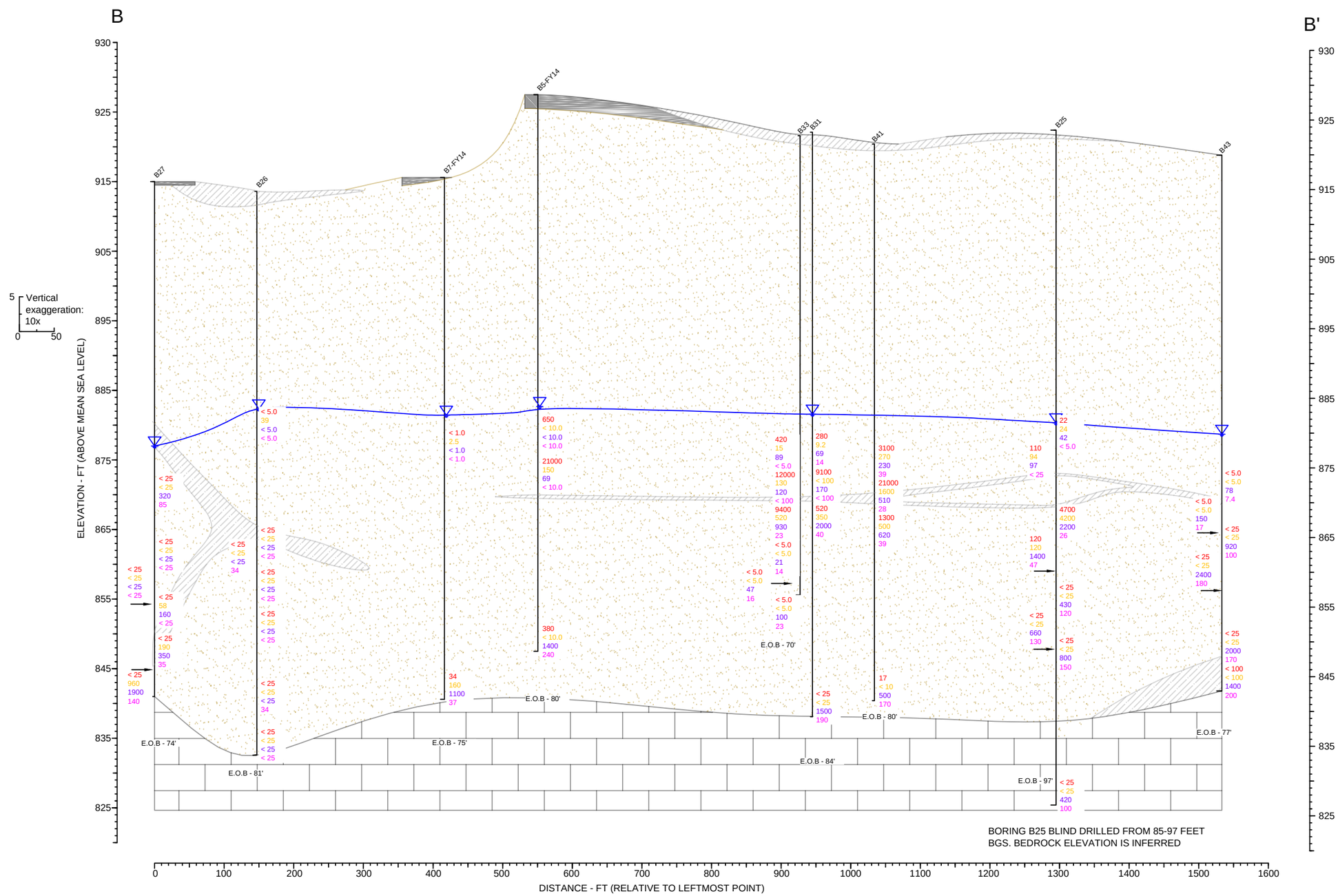

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 9A

CROSS SECTION B-B'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

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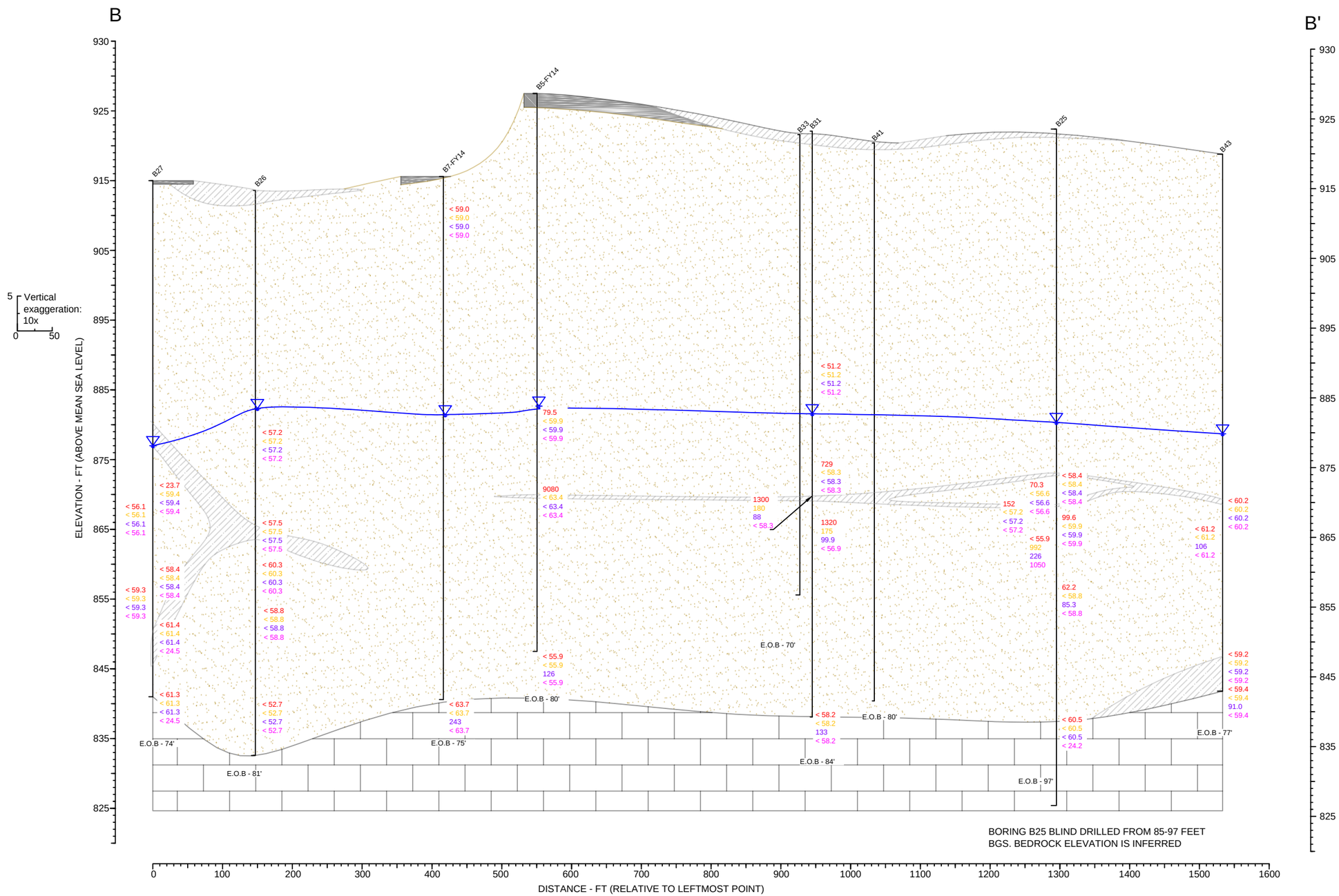

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 9B

CROSS SECTION B-B'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-27
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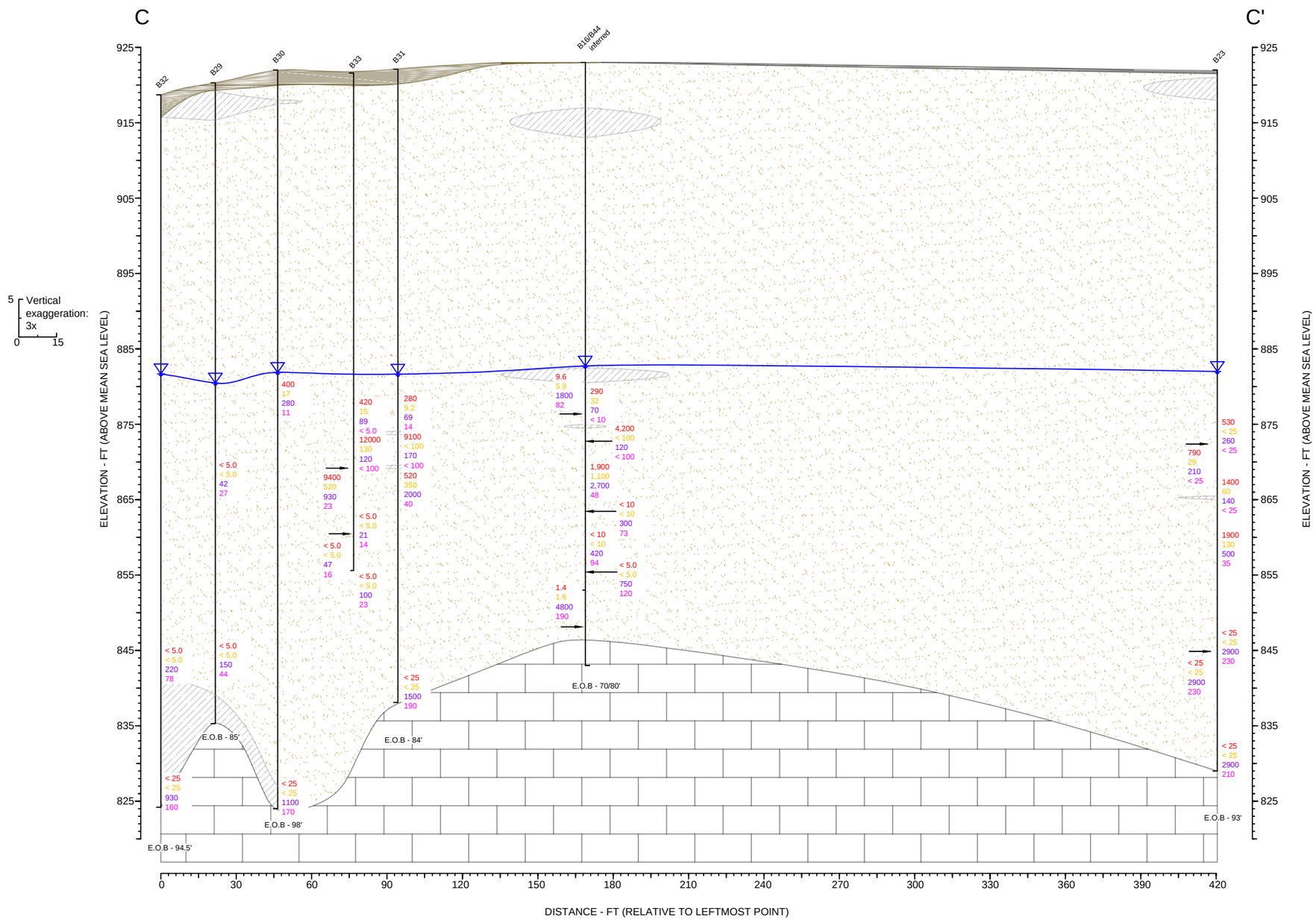

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 10A

CROSS SECTION C-C'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
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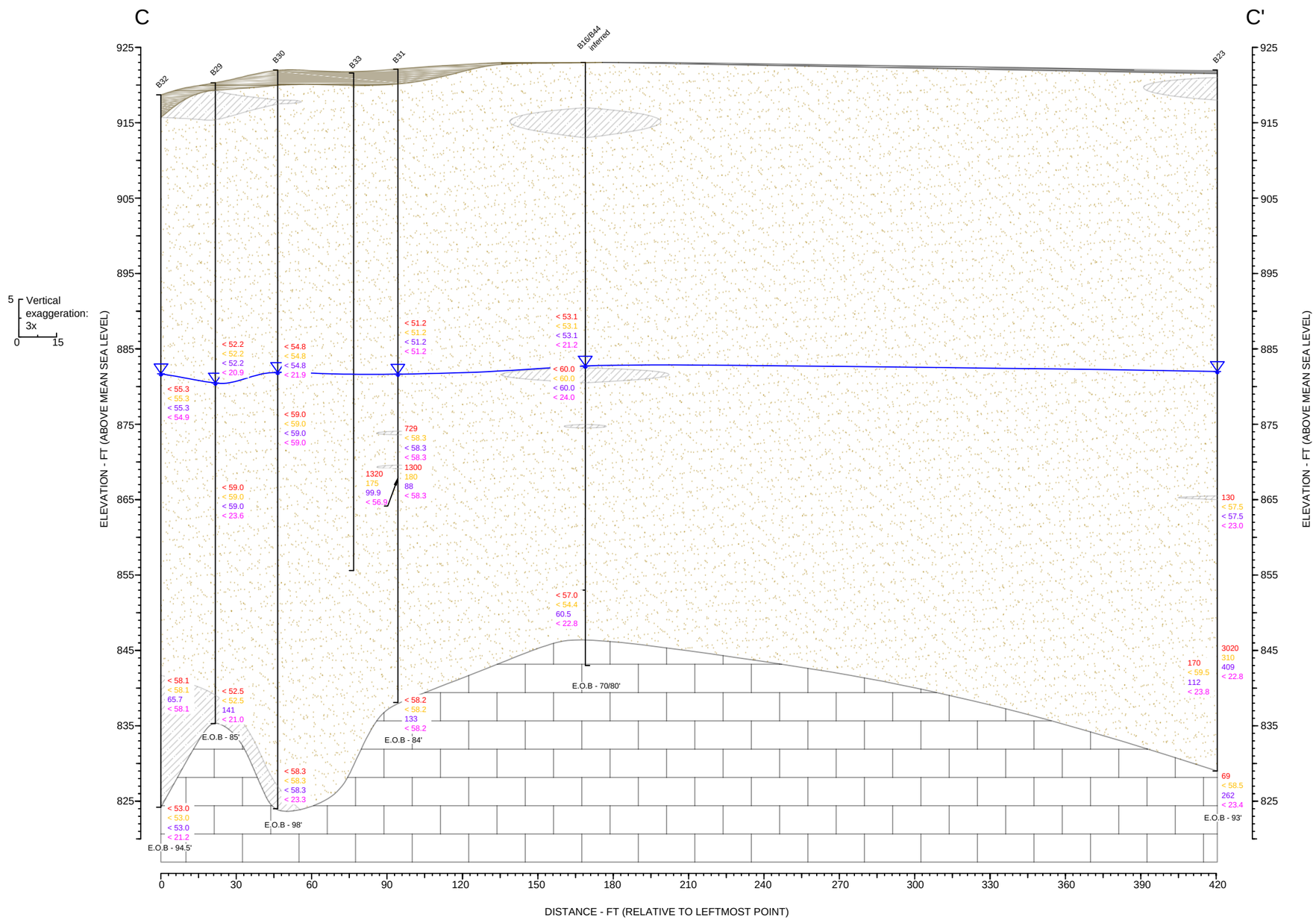

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 10B

CROSS SECTION C-C'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
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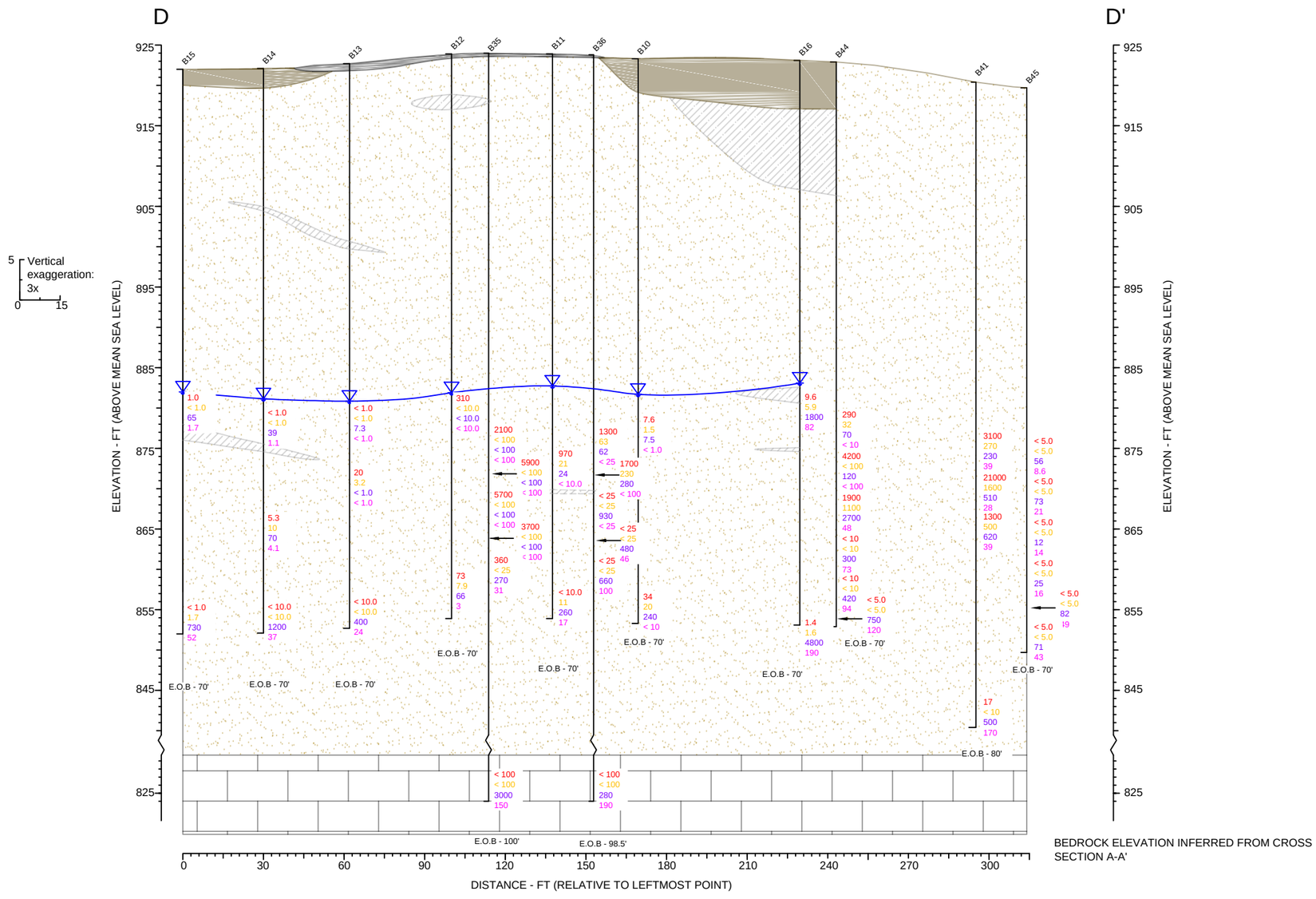

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 11A

CROSS SECTION D-D'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
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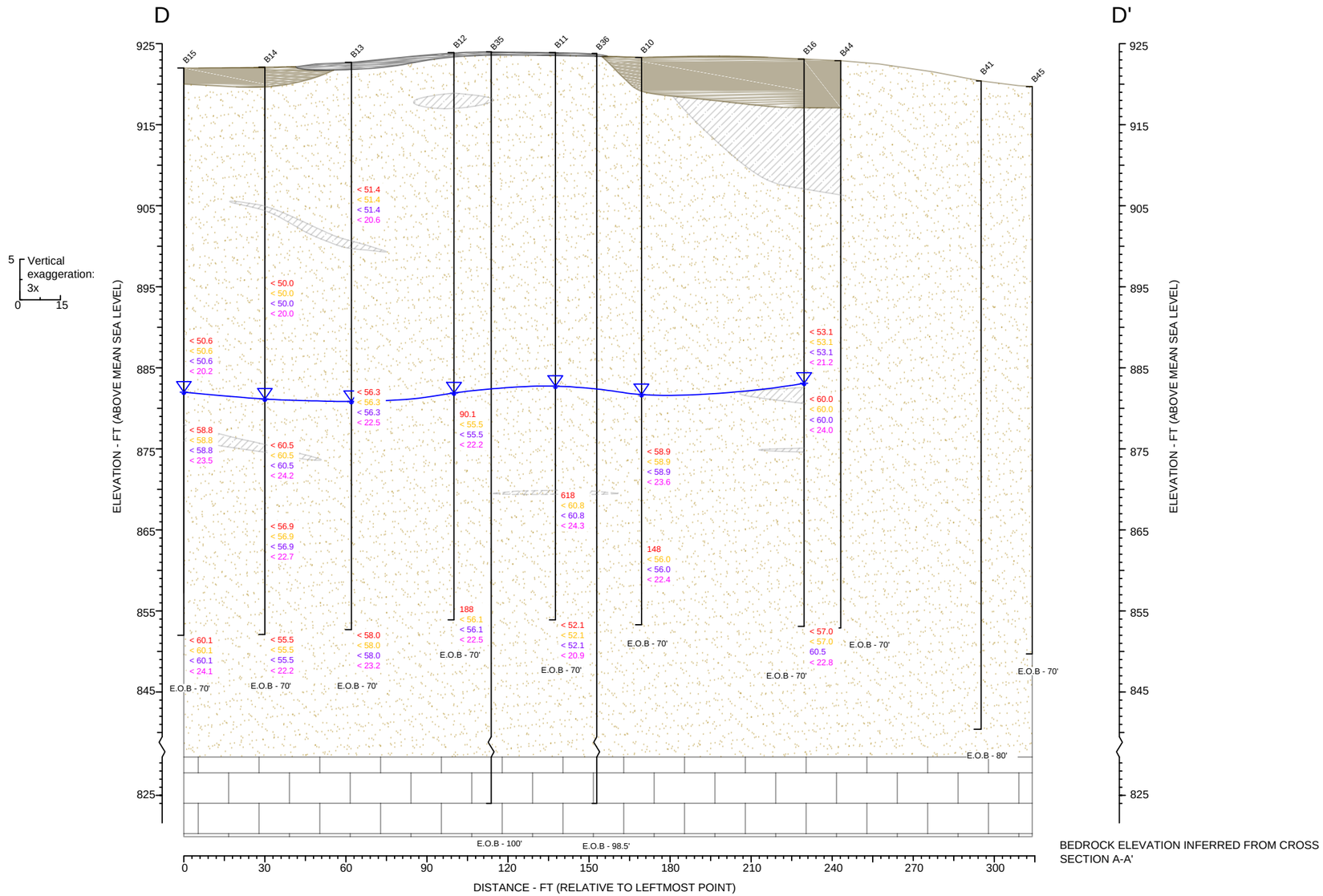

BEDROCK ELEVATION INFERRED FROM CROSS SECTION A-A'

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 11B

CROSS SECTION D-D'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
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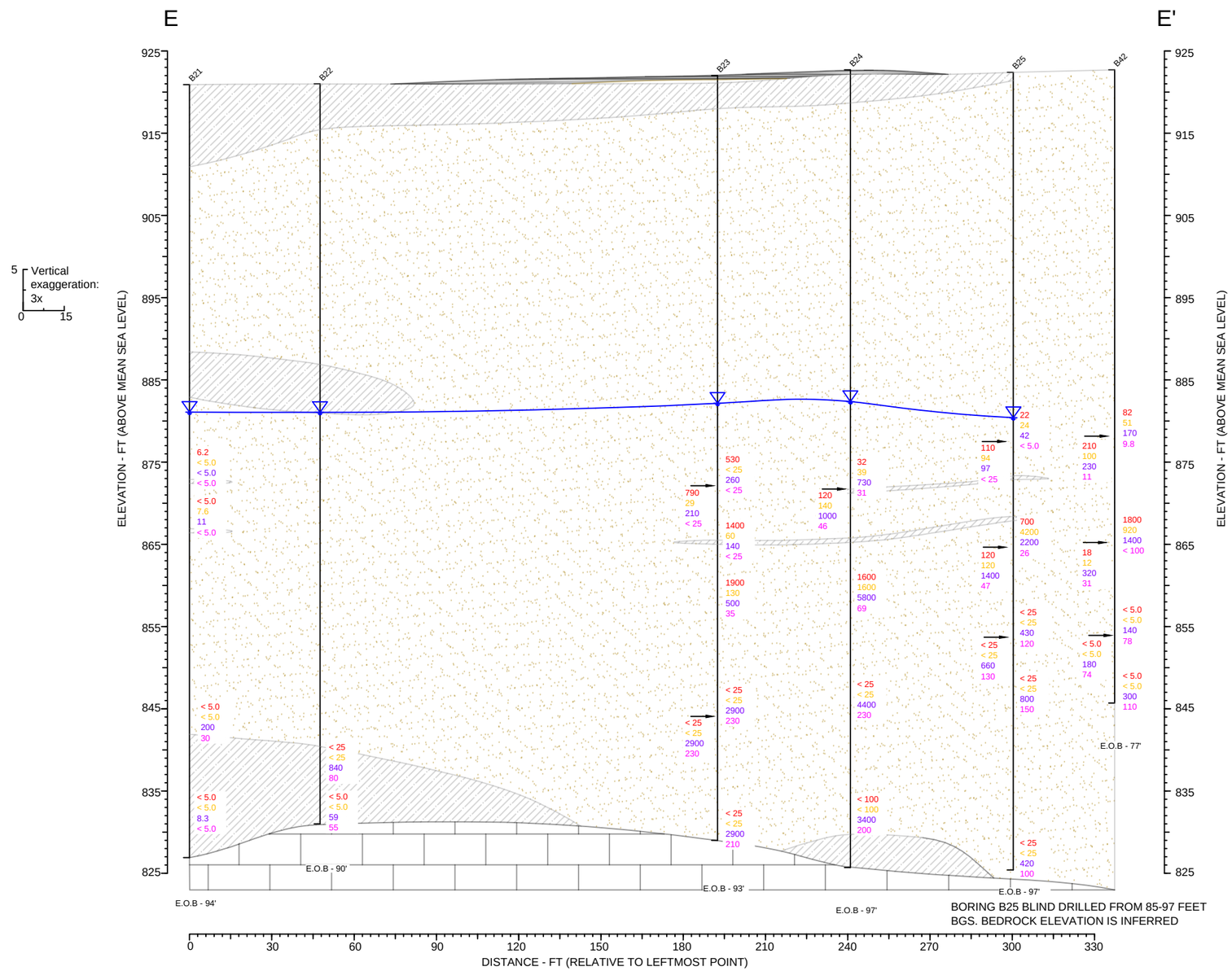

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 12A

CROSS SECTION E-E'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-27
Filename: P:\WATER_ENV\MPCAIP\16_MPCAIP 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG
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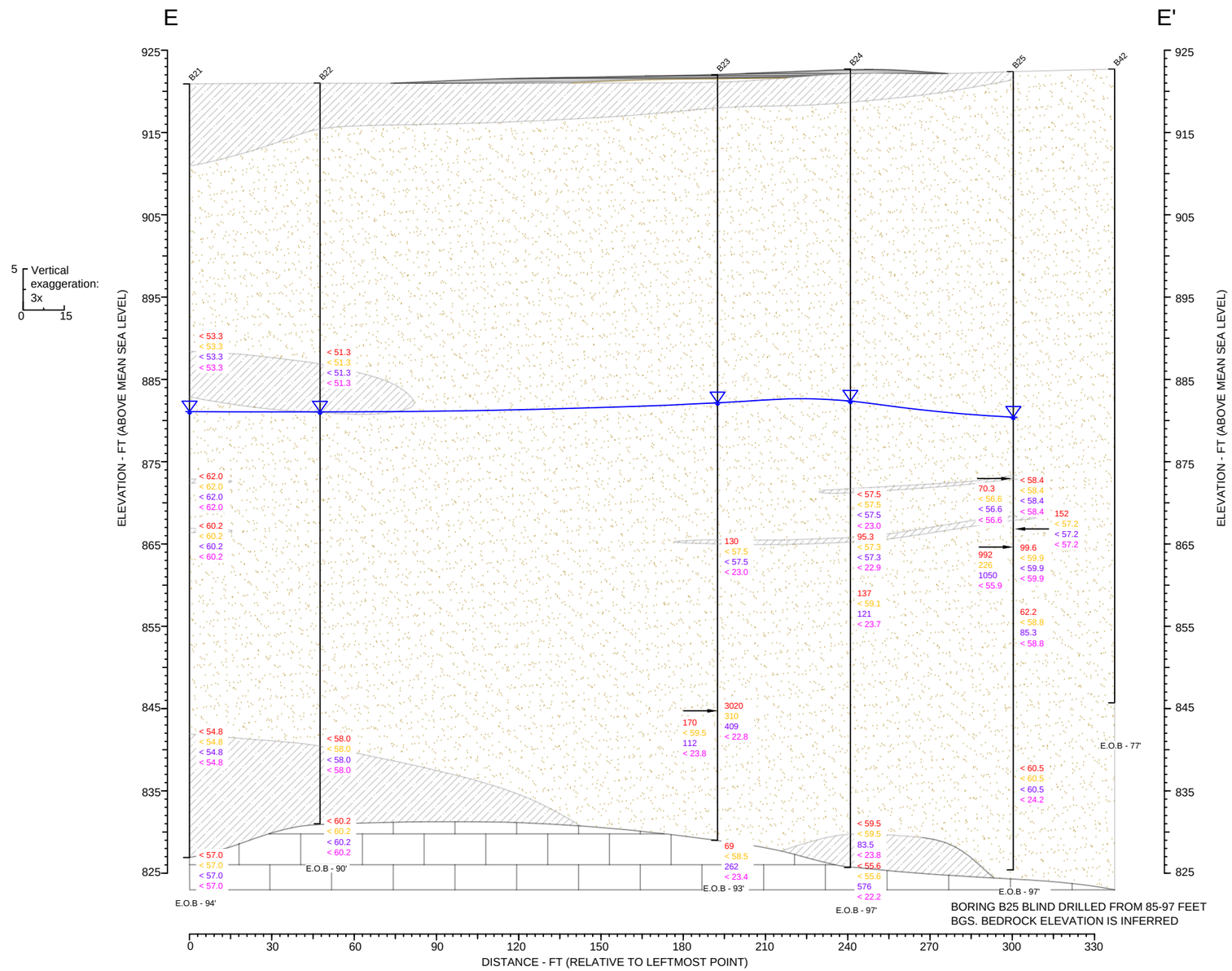

Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

AECOM

FIGURE 12B

CROSS SECTION E-E'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-27
Filename: P:\WATER_ENV\MPCAIFY16_MPCAIFY 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG
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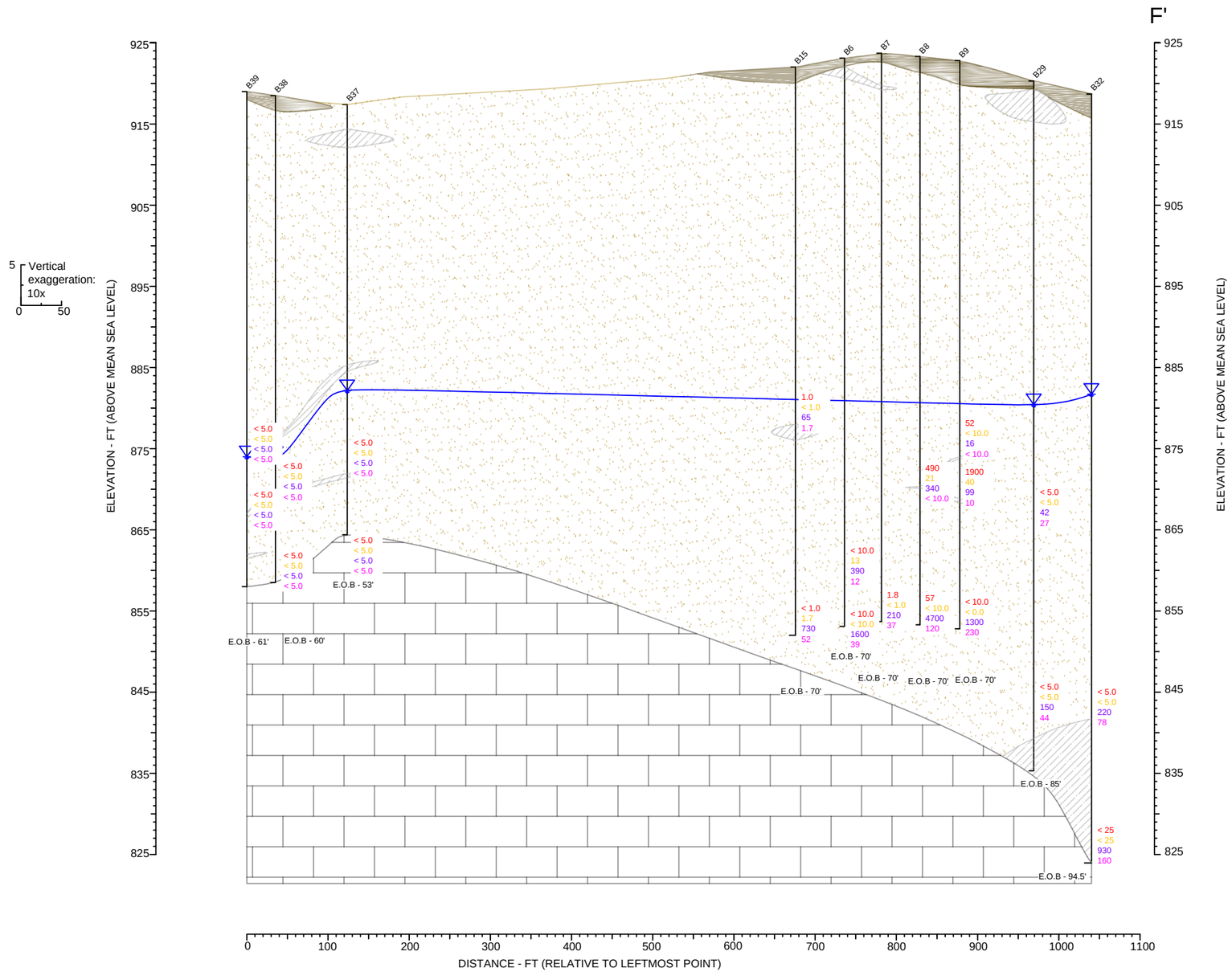


Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

WATER RESULT (ug/L)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring with arrow present when data does not fit

APROXIMATE GROUNDWATER ELEVATION

AECOM

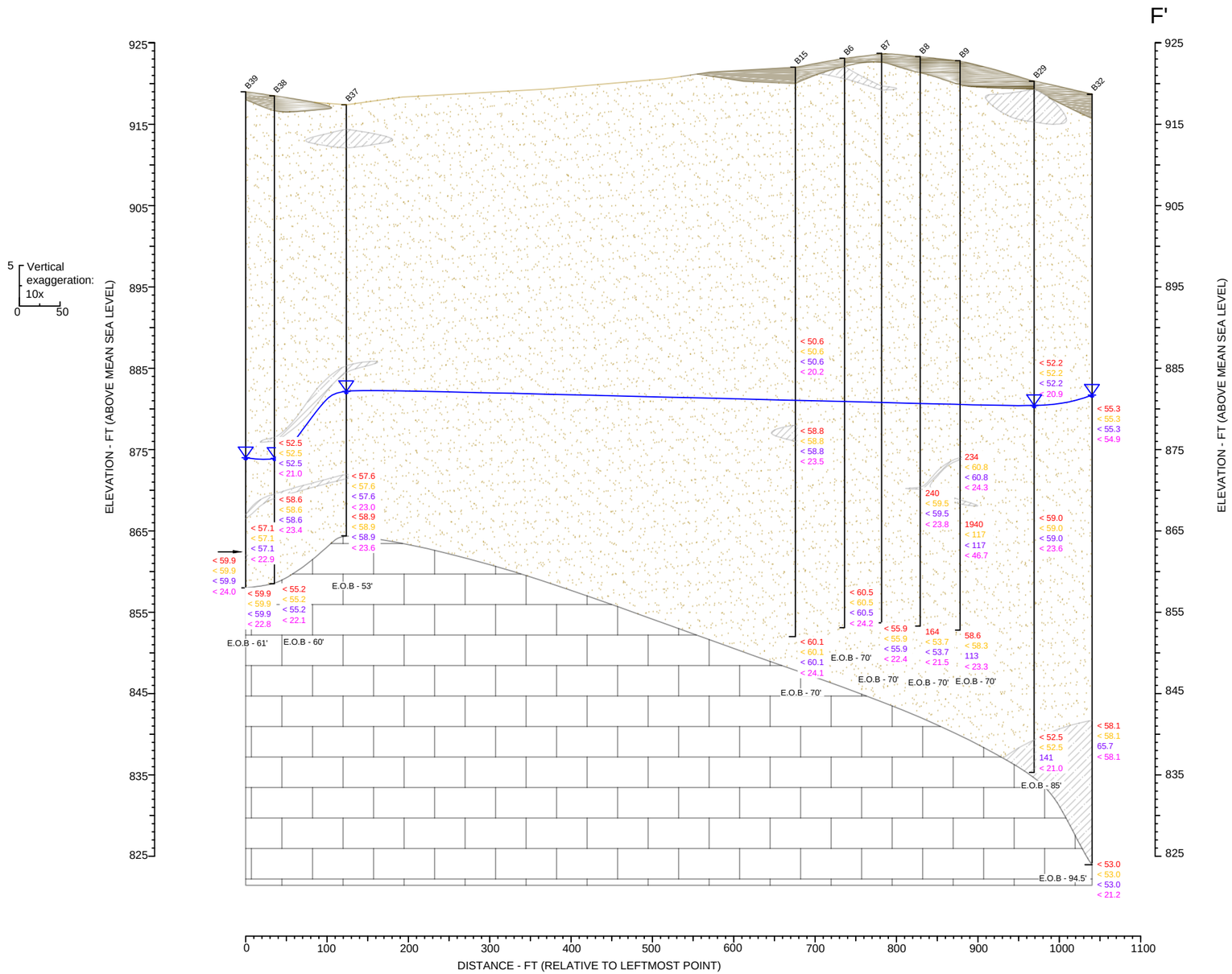
FIGURE 13A

CROSS SECTION F-F'
GROUNDWATER RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
Filename: P:\WATER_ENV\MPCA\FY16_MPCA\FY 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG

Project Management Initials: Designer: ___ Checked: ___ Approved: ___ ANSI B 11" x 17"



Concrete/Asphalt

Organic Soil

Fine to Coarse Grain Sand

Clays and Silts

Bedrock

SOIL RESULTS
(ug/kg)

PCE Tetrachloroethene
TCE Trichloroethene
cDCE cis-1,2-Dichloroethene
VC Vinyl Chloride

Information for borings are presented to the right of boring unless arrow present

APROXIMATE GROUNDWATER ELEVATION

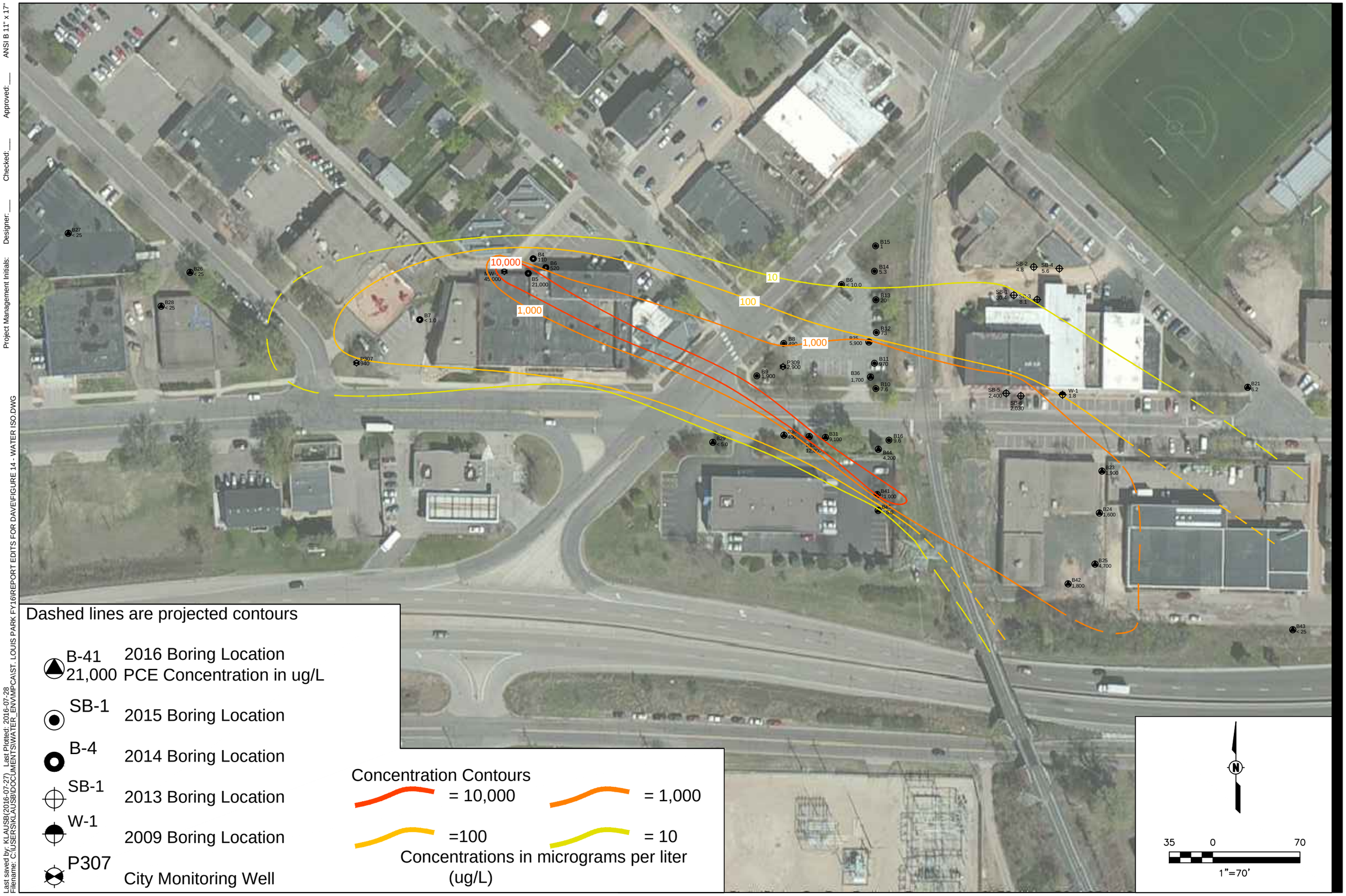
AECOM

FIGURE 13B

CROSS SECTION F-F'
SOIL RESULTS

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-14) Last Plotted: 2016-06-14
Filename: P:\WATER_ENV\MPCA\FY16_MPCA\FY 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\CROSS SECTIONS.DWG
Project Management Initials: Designer: ___ Checked: ___ Approved: ___ ANSI B 11" x 17"



Maximum PCE Concentrations in Groundwater Between 46' and 66' Below Ground Surface

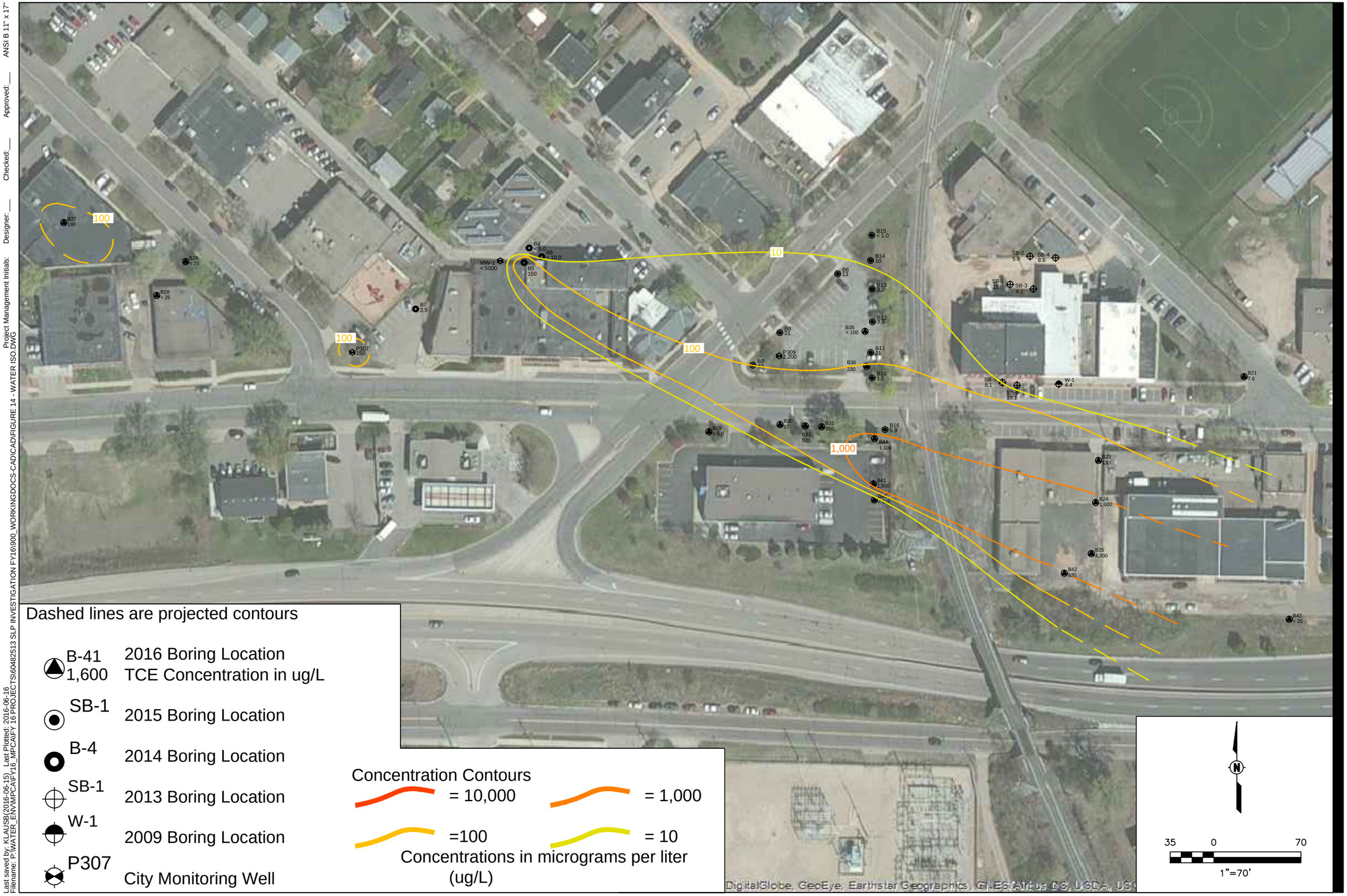
AECOM

FIGURE 14

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 7/27/2016

Last saved by: KLAUSB(2016-07-27) Last Plotted: 2016-07-28
Filename: C:\USERS\KLAUSB\DOCUMENTS\WATER_ENV\MPCA\ST. LOUIS PARK FY16\REPORT EDITS FOR DAVE\FIGURE 14 - WATER ISO.DWG

Project Management Initials: Designer: ___ Checked: ___ Approved: ___ ANSI B 11" x 17"



AECOM

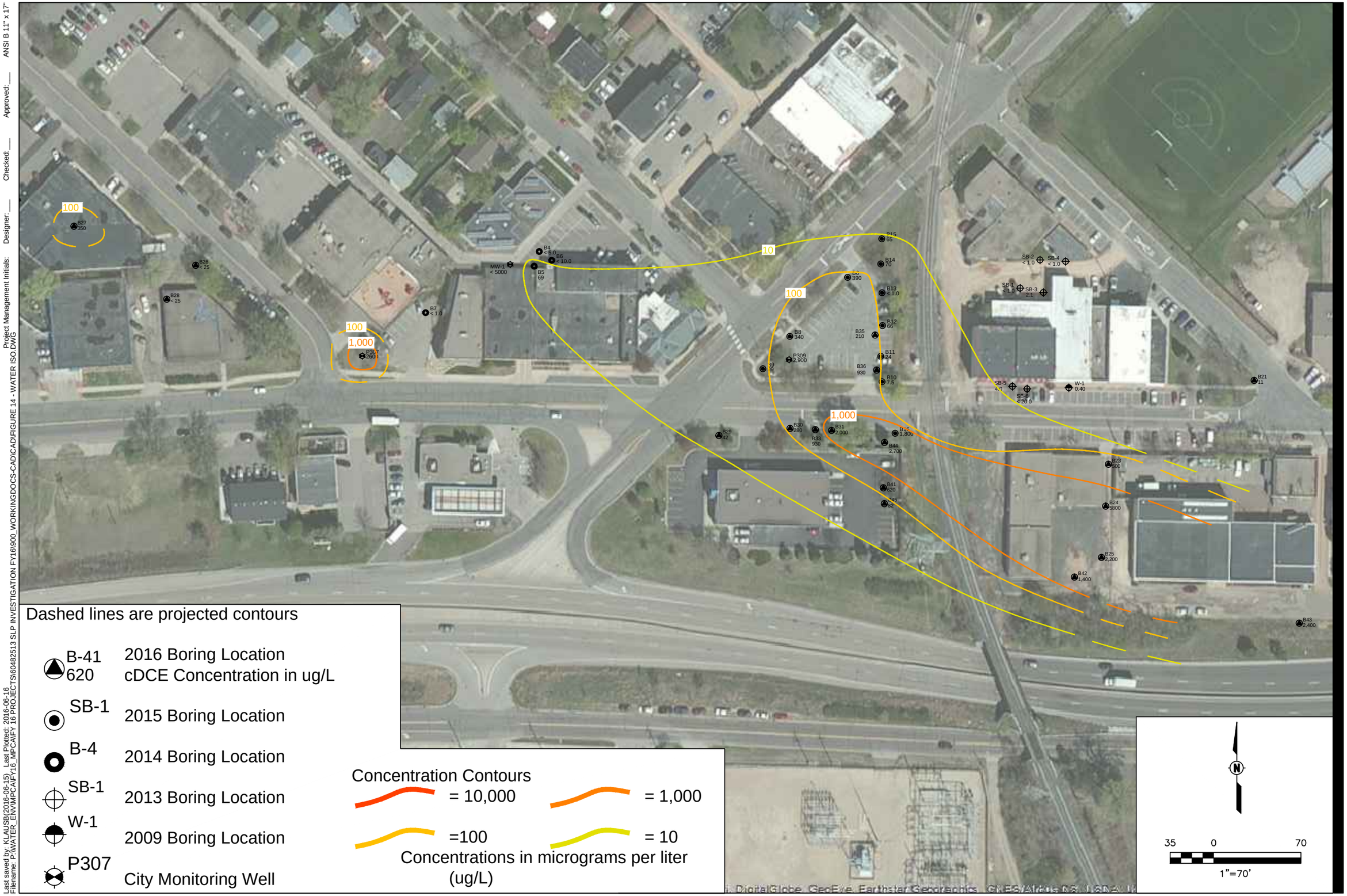
FIGURE 15

Maximum TCE Concentrations in Groundwater Between 46' and 66' Below Ground Surface

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-15) Last Plotted: 2016-06-16
Filename: P:\WATER_ENV\MPCAIF\16_MPCAIF\16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\FIGURE 14 - WATER ISO.DWG

Project Management Initials:
Designer: ___ Checked: ___ Approved: ___
ANSI B 11" x 17"



Maximum cDCE Concentrations in Groundwater
Between 46' and 66' Below Ground Surface

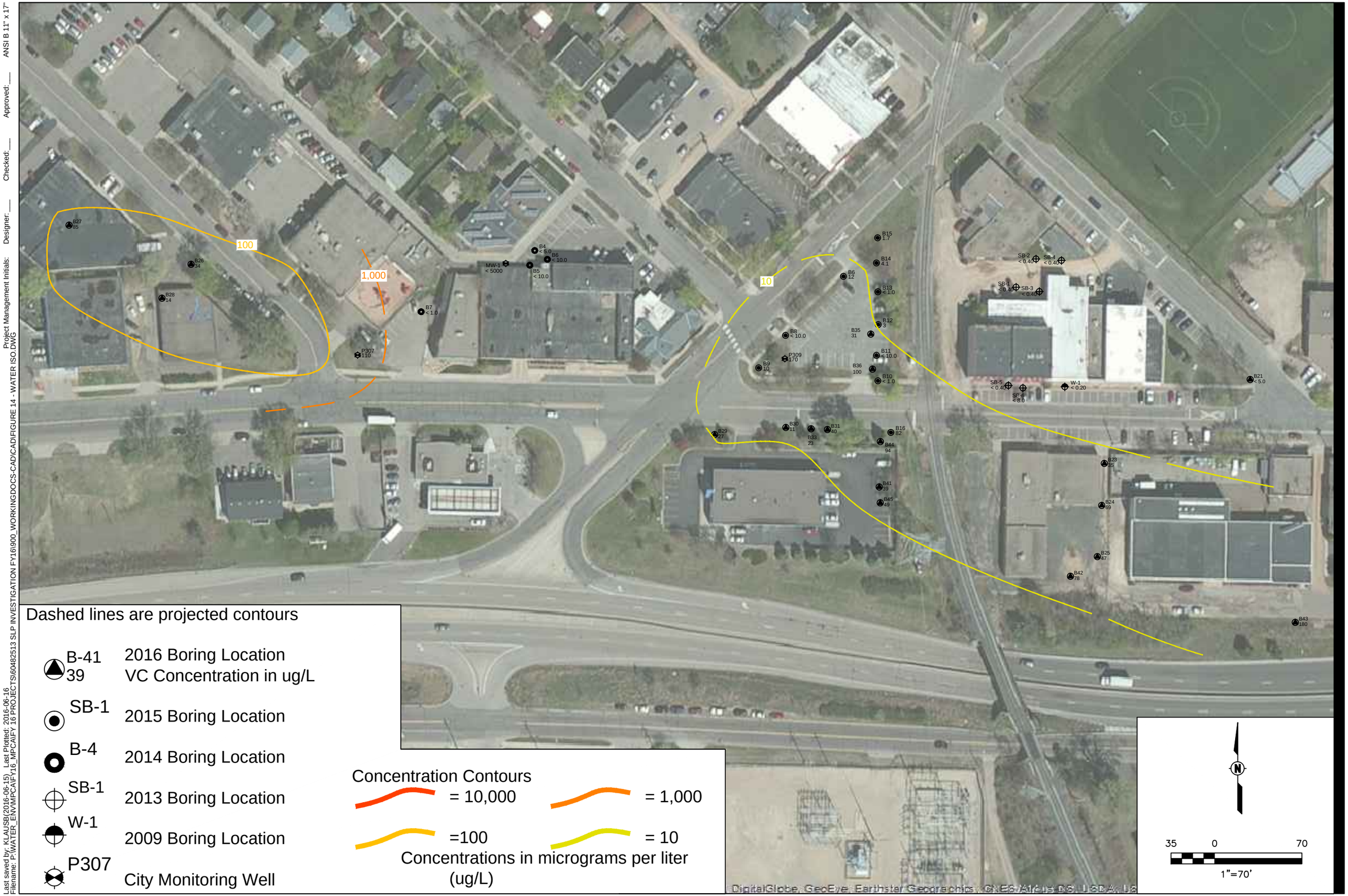
AECOM

FIGURE 16

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-15) Last Plotted: 2016-06-16
Filename: P:\WATER_ENV\MPCAIF\16_MPCAIF\16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\FIGURE 14 - WATER ISO.DWG

Project Management Initials:
Designer: ___ Checked: ___ Approved: ___
ANSI B 11" x 17"



Maximum VC Concentrations in Groundwater Between 46' and 66' Below Ground Surface

AECOM

FIGURE 17

St. Louis Park
Solvent Plume Investigation
St. Louis Park, Minnesota
Project No.: 60482513 6/14/2016

Last saved by: KLAUSB(2016-06-15) Last Plotted: 2016-06-16
Filename: P:\WATER_ENV\MPCA\FY16_MPCA\FY 16 PROJECTS\60482513 SLP INVESTIGATION FY16\900_WORKINGDOCS-CAD\CAD\FIGURE 14 - WATER ISO.DWG

Project Management Initials: Designer: ___ Checked: ___ Approved: ___ ANSI B 11" x 17"

Appendix A

Well Sealing Records

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING SEALING RECORD

Minnesota Statutes, Chapter 1031

Minnesota Well and Boring Sealing No.
Minnesota Unique Well No. or W-series No.
(Leave blank if not known)

H 334136

WELL OR BORING LOCATION

County Name: Hennepin

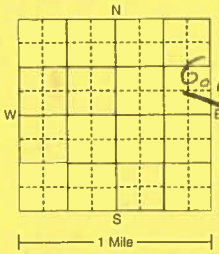
Township Name	Township No.	Range No.	Section No.	Fraction (sm. → lg.)
	117N	21W	17	NE NE SE

GPS LOCATION – decimal degrees (to four decimal places)

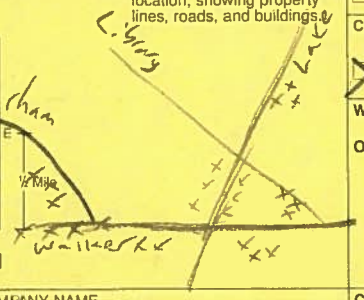
Latitude _____ Longitude _____

Numerical Street Address or Fire Number and City of Well or Boring Location: 6500 Walker St., St. Louis Park

Show exact location of well or boring in section grid with "X."



Sketch map of well or boring location, showing property lines, roads, and buildings.



PROPERTY OWNER'S NAME/COMPANY NAME: MPCA c/o AECOM

Property owner's mailing address if different than well location address indicated above: 800 LaSalle Ave, #500, Minneapolis, MN 55402

WELL OWNER'S NAME/COMPANY NAME: SAA

Well owner's mailing address if different than property owner's address indicated above: SAA

GEOLOGICAL MATERIAL	COLOR	HARDNESS OR FORMATION	FROM	TO
If not known, indicate estimated formation log from nearby well or boring.				
Silty Clay w/ Sand	Br	Mod-Hard	0	100

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY

H 334136

Date Sealed: 2/22/16 - 3/23/16

Date Well or Boring Constructed: 2/22/16 - 3/23/16

Depth Before Sealing: 75-100 ft.

Original Depth: 75-100 ft.

AQUIFER(S): ☐ Single Aquifer ☐ Multiaquifer

WELL/BORING: ☐ Water-Supply Well ☑ Monit. Well Temp ☐ Env. Bore Hole ☐ Other _____

STATIC WATER LEVEL: ☐ Measured ☑ Estimated Date Measured 2/22-3/23/16 250 ft. ☑ below ☐ above land surface

CASING TYPE(S): ☑ Steel ☐ Plastic ☐ Tile ☐ Other _____

WELLHEAD COMPLETION

Outside: ☐ Well House ☐ At Grade ☐ Pitless Adapter/Unit ☐ Buried ☐ Well Pit ☐ Other _____

Inside: ☐ Basement Offset ☐ Well Pit ☐ Buried ☐ Other _____

NA

CASING(S)

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
in. from	to	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown

NA

SCREEN/OPEN HOLE

Screen from _____ to _____ ft. Open Hole from _____ to _____ ft.

NA

OBSTRUCTIONS

☐ Rods/Drop Pipe ☐ Check Valve(s) ☐ Debris ☐ Fill ☑ No Obstruction

Type of Obstructions (Describe) _____

Obstructions removed? ☐ Yes ☐ No Describe _____

PUMP

Type _____

☐ Removed ☑ Not Present ☐ Other _____

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:

☑ No Annular Space Exists ☐ Annular Space Grouted with Tremie Pipe ☐ Casing Perforation/Removal

in. from _____ to _____ ft. ☐ Perforated ☐ Removed

in. from _____ to _____ ft. ☐ Perforated ☐ Removed

Type of Perforator _____

VARIANCE

Was a variance granted from the MDH for this well? ☐ Yes ☑ No TN# _____

GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)

Grouting Material: Bentonite Grout from 0 to 75-100 yards 30 bags

from _____ to _____ ft. _____ yards _____ bags

from _____ to _____ ft. _____ yards _____ bags

OTHER WELLS AND BORINGS

Other unsealed and unused well or boring on property? ☐ Yes ☑ No How many? _____

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION

This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Matrix Environmental, LLC — *Licensed Business Name*

1916 — *License or Registration No.*

Certified Representative Signature

1062 — *Certified Rep. No.*

4/8/16 — *Date*

Erik Widmark — *Name of Person Sealing Well or Boring*

HE-01434-14 IC# 140-0423

5/13R

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING SEALING RECORD

Minnesota Statutes, Chapter 103I

Minnesota Well and Boring Sealing No.
Minnesota Unique Well No. or W-series No.
(Leave blank if not known)

H 334144

WELL OR BORING LOCATION

County Name: Hennepin

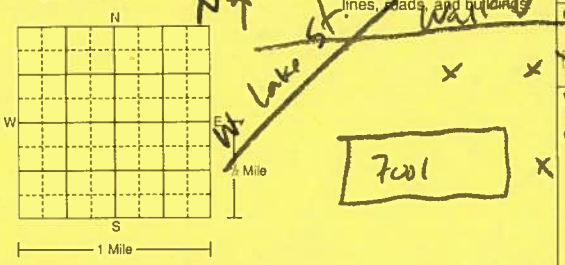
Township Name	Township No.	Range No.	Section No.	Fraction (sm. – la.)
	117N	21W	17	NENESE

GPS LOCATION – decimal degrees (to four decimal places)

Latitude _____ Longitude _____

Numerical Street Address or Fire Number and City of Well or Boring Location: 7001 W. Lake St, St. Louis Park

Show exact location of well or boring in section grid with "X."



Sketch map of well or boring location, showing property lines, roads, and buildings

Date Sealed: 4/20/16

Date Well or Boring Constructed: 4/20/16

Depth Before Sealing: 70 ft.

Original Depth: 70 ft.

AQUIFER(S): ☒ Single Aquifer ☐ Multiaquifer

WELL/BORING: ☐ Water-Supply Well ☒ Monit. Well Temp ☐ Env. Bore Hole ☐ Other _____

STATIC WATER LEVEL: ☐ Measured ☒ Estimated Date Measured 4/20/16 ≈ 40 ft. ☒ below ☐ above land surface

CASING TYPE(S): ☒ Steel ☐ Plastic ☐ Tile ☐ Other _____

WELLHEAD COMPLETION

Outside: ☐ Well House ☐ At Grade ☐ Pitless Adapter/Unit ☐ Buried ☐ Well Pit ☐ Other _____

Inside: ☐ Basement Offset ☐ Well Pit ☐ Buried ☐ Other _____

NA

PROPERTY OWNER'S NAME/COMPANY NAME: MPCA c/o AECOM

Property owner's mailing address if different than well location address indicated above: 800 Lasalle Ave, #500 Minneapolis, MN 55402

WELL OWNER'S NAME/COMPANY NAME: SAA

Well owner's mailing address if different than property owner's address indicated above: SAA

CASING(S)

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
_____ in. from	_____ to _____ ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
_____ in. from	_____ to _____ ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
_____ in. from	_____ to _____ ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown

NA

SCREEN/OPEN HOLE

Screen from _____ to _____ ft. Open hole from _____ to _____ ft.

OBSTRUCTIONS

☐ Rods/Drop Pipe ☐ Check Valve(s) ☐ Debris ☐ Fill ☒ No Obstruction

Type of Obstructions (Describe) _____

Obstructions removed? ☐ Yes ☐ No Describe _____

PUMP

Type _____

☐ Removed ☒ Not Present ☐ Other _____

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:

☒ No Annular Space Exists ☐ Annular Space Grouted with Tremie Pipe ☐ Casing Perforation/Removal

_____ in. from _____ to _____ ft. ☐ Perforated ☐ Removed

_____ in. from _____ to _____ ft. ☐ Perforated ☐ Removed

Type of Perforator _____

VARIANCE

Was a variance granted from the MDH for this well? ☐ Yes ☒ No TN# _____

GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)

Grouting Material: Bentonite Grout from 0 to 70 ft. _____ yards 2 bags

_____ from _____ to _____ ft. _____ yards _____ bags

_____ from _____ to _____ ft. _____ yards _____ bags

OTHER WELLS AND BORINGS

Other unsealed and unused well or boring on property? ☐ Yes ☒ No How many? _____

GEOLOGICAL MATERIAL	COLOR	HARDNESS OR FORMATION	FROM	TO
If not known, indicate estimated formation log from nearby well or boring.				
Silty Clay w/ Sand	Br	mod	0	70

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION

This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Matrix Environmental, LLC — Licensed Business Name

1966 — License or Registration No.

Dan Thompson — Certified Representative Signature

1200 — Certified Rep. No.

4/25/16 — Date

Erik Widmark — Name of Person Sealing Well or Boring

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY

H 334144

HE-01434-14 IC# 140-0423

5/13R

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING SEALING RECORD

Minnesota Statutes, Chapter 1031

Minnesota Well and Boring Sealing No.
Minnesota Unique Well No. or W-series No.
(Leave blank if not known)

H 334144

WELL OR BORING LOCATION

County Name: Hennepin

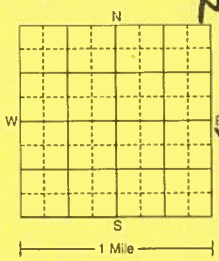
Township Name	Township No.	Range No.	Section No.	Fraction (sm. – lg.)
	117N	21W	17	NENESE

GPS LOCATION – decimal degrees (to four decimal places)

Latitude _____ Longitude _____

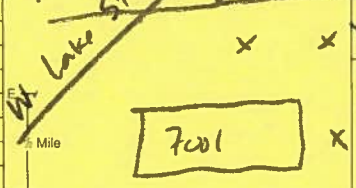
Numerical Street Address or Fire Number and City of Well or Boring Location: 7001 W. Lake St, St. Louis Park

Show exact location of well or boring in section grid with "X."



NA

Sketch map of well or boring location, showing property lines, roads, and buildings.



PROPERTY OWNER'S NAME/COMPANY NAME: MPCA c/o AECOM

Property owner's mailing address if different than well location address indicated above: 800 Lasalle Ave, #500 Minneapolis, MN 55402

WELL OWNER'S NAME/COMPANY NAME: SAA

Well owner's mailing address if different than property owner's address indicated above: SAA

GEOLOGICAL MATERIAL	COLOR	HARDNESS OR FORMATION	FROM	TO
If not known, indicate estimated formation log from nearby well or boring.				
Silty Clay w/ Sand	Br	Mod	0	70

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY

H 334144

Date Sealed: 4/20/16

Date Well or Boring Constructed: 4/20/16

Depth Before Sealing: 70 ft.

Original Depth: 70 ft.

AQUIFER(S): ☒ Single Aquifer ☐ Multiaquifer

WELL/BORING: ☐ Water-Supply Well ☒ Monit. Well Temp ☐ Env. Bore Hole ☐ Other

STATIC WATER LEVEL: ☐ Measured ☒ Estimated Date Measured 4/20/16

≈ 40 ft. ☒ below ☐ above land surface

CASING TYPE(S): ☒ Steel ☐ Plastic ☐ Tile ☐ Other

WELLHEAD COMPLETION

Outside: ☐ Well House ☐ At Grade ☐ Pitless Adapter/Unit ☐ Buried ☐ Well Pit ☐ Other

Inside: ☐ Basement Offset ☐ Well Pit ☐ Buried ☐ Other

NA

CASING(S)

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown

NA

SCREEN/OPEN HOLE

Screen from _____ to _____ ft. Open hole from _____ to _____ ft.

NA

OBSTRUCTIONS

☐ Rods/Drop Pipe ☐ Check Valve(s) ☐ Debris ☐ Fill ☒ No Obstruction

Type of Obstructions (Describe)

Obstructions removed? ☐ Yes ☐ No Describe

PUMP

Type

☐ Removed ☒ Not Present ☐ Other

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:

☒ No Annular Space Exists ☐ Annular Space Grouted with Tremie Pipe ☐ Casing Perforation/Removal

in. from to ft. ☐ Perforated ☐ Removed

in. from to ft. ☐ Perforated ☐ Removed

Type of Perforator

VARIANCE

Was a variance granted from the MDH for this well? ☐ Yes ☒ No TN#

GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)

Grouting Material: Bentonite Crust from 0 to 70 ft. yards 2 bags

from to ft. yards bags

from to ft. yards bags

OTHER WELLS AND BORINGS

Other unsealed and unused well or boring on property? ☐ Yes ☒ No How many?

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION

This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Matrix Environmental, LLC — *Licensee Business Name*

1916 — *License or Registration No.*

Dan Thompson — *Certified Representative Signature*

1200 — *Certified Rep. No.*

4/25/16 — *Date*

Erik Widmark — *Name of Person Sealing Well or Boring*

HE-01434-14 IC# 140-0423 5/13R

Appendix B

Boring Logs

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B21
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.684357		WATER LEVEL: 20	DATE START: 03/02/16 / DATE FINISH: 03/02/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 0839 / TIME FINISH: 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	0.6	CL	1, 2		SILTY CLAY, some very fine to coarse-grained sand, trace fine gravel; frozen, 10YR 2/1, black @3' bgs, moist, low plasticity
		0.1		3, 4		
	2.5/5	0.1	CL	5, 6, 7		SILTY CLAY, trace very fine to fine-grained sand, trace fine gravel; frozen, 10YR 2/1, black
		0.2		8, 9		SILTY CLAY, trace very fine to fine-grained sand, low plasticity; stiff, moist, 10YR 4/3, brown
	1/5	0.2	SW	10, 11, 12		SAND, very fine to coarse-grained, some fine to large gravel; loose, moist to wet, 10YR 3/3, dark brown
		0.2		13, 14		
	1.5/5	0.2		15, 16, 17		
		0.2	SW	18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B21
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.684357		WATER LEVEL: 20	DATE: 03/02/16 / 03/02/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0839 / 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B21-S-30	2/5	0.2	SW	21–25		SAND, very fine to coarse-grained, some fine to large gravel; loose, wet, 10YR 3/3, dark brown
	2.5/5	0.2		25–30		SAND, very fine to coarse-grained, trace fine to large gravel; loose, wet, 10YR 4/4, dark yellowish brown @ 29.5-30' bgs some fine gravel
	2/5	0.4	GP	30–32		GRAVEL, fine to large, some sand, some silt; loose, wet, 10YR 4/3, brown
	2.5/5	0.3, 0.2	CL	33–38		SANDY CLAY, very fine to coarse-grained sand, little fine to large gravel, medium plasticity; medium stiff, moist, 10YR 4/3, brown
		0.1	SW	38–39		SAND, very fine to coarse-grained, some fine to large gravel, trace silt; loose, wet, 10YR 4/4, dark yellowish brown

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B21
LOGGED BY: MM	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.684357		WATER LEVEL: 20	DATE: 03/02/16 / 03/02/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0839 / 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				41		SAND, very fine to coarse-grained, some fine gravel, trace silt; loose, wet, 10YR 5/4, yellowish brown @44' bgs 10YR 4/4, dark yellowish brown
	3/5	0.1		42		
				43		
B21-W-(44-48)		0.1	SW	44		
				45		
				46		
B21-S-47 B21-S-47 MS B21-S-47 MSD	4/5	0.1		47		
			SM	48		SILTY SAND, very fine-grained sand, no plasticity, little mottling; dense, wet, 10YR 4/4, dark yellowish brown
		0.1		49		SAND, very fine to coarse-grained sand, little silt, trace fine gravel, medium plasticity; loose, wet, 10YR 4/3, brown
B21-W-(50-54)				50		
			SW	51		
	4/5	0.1		52		
B21-S-53				53		
		0.1		54		
			SM			SILTY SAND, very fine-grained sand, no plasticity, little mottling; dense, wet, 10YR 4/4, dark yellowish brown
				55		SAND, very fine to coarse-grained sand, little silt, trace fine gravel, medium plasticity; loose, wet, 10YR 4/3, brown
				56		
	3/5	0.1	SW	57		
				58		
		0.1		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B21
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.684357		WATER LEVEL: 20	DATE: 03/02/16 / 03/02/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0839 / 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3/5	0.3	SW	61, 62, 63, 64, 65		SAND, very fine to coarse-grained sand, little silt, trace fine gravel, medium plasticity; loose, wet, 10YR 4/3, brown
	3/5	0.2	SW	66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78		SAND, very fine to coarse-grained sand, little silt, trace fine gravel, medium plasticity; loose, wet, 10YR 4/2, dark grayish brown
	4/5	0.3				
B21-W-(75-79)		0.2				
	5/5	0.3				
B21-S-78		0.2	SM	79		SILTY SAND, very fine to coarse-grained sand, some fine to large gravel, no plasticity; wet, 10YR 4/2, dark grayish brown

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B21
LOGGED BY: MM	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.684357		WATER LEVEL: 20	DATE: 03/02/16 / 03/02/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0839 / 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B21-W-(86-90)	5/5	0.5	SM	81, 82		SILTY SAND, very fine to coarse-grained sand, some fine to large gravel, no plasticity; wet, 10YR 4/2, dark grayish brown
		0.3		83, 84, 85		
	5/5	0.2	SM	86, 87		SILTY SAND, very fine to coarse-grained sand, some fine to large gravel, no plasticity; soft and saturated, 10YR 4/2, dark grayish brown
		0.2		88, 89		
B21-S-93	3/4	0.2	SM	90, 91, 92		
		0.2		93, 94		
				95, 96, 97, 98, 99		End of Boring = 94' Refusal

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B22
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 90 ft bgs			
GROUND SURFACE ELEVATION: 280.724915		WATER LEVEL: 40	DATE: 03/01/16 / DATE: 03/01/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0940 / TIME: 1510
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.3	CL	1, 2, 3		SILTY CLAY, some very fine to coarse-grained sand, little fine gravel; hard, frost, moist, 10YR 3/1, very dark gray
		0.2		4		
				5		SILTY CLAY, trace very fine to coarse-grained sand; soft, moist, 10YR 4/3, brown
	2/5	0.1	SW	6, 7		SAND, very fine to coarse-grained, with fine to large gravel; loose, dry, 10YR 6/2, light brownish gray
		0.2		8, 9		
	2/5	0.1	SW	10, 11, 12		
		0.2		13, 14		
	1/5	0.5	SW	15, 16, 17		
		0.2		18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B22
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 90 ft bgs			
GROUND SURFACE ELEVATION: 280.724915		WATER LEVEL: 40	DATE START: 03/01/16; DATE FINISH: 03/01/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 0940; TIME FINISH: 1510
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	0.2	SP	21–22		SAND, very fine to coarse-grained - mostly fine; loose, moist, 10YR 5/3, brown
		0.2	SW	23–24		SAND, very fine to coarse-grained, with fine to large gravel; loose, dry, 10YR 6/2, light brownish gray @26-27' bgs very fine to fine-grained SAND
	2.5/5	0.2		25–27		
		0.3	SW	28–29		
B22-S-32	2/5	0.2		30–32		
		0.2		33–34		
	3/5	0.1	CL	35–37		SANDY CLAY, little very fine to coarse-grained sand, little fine to large gravel, little silt, low plasticity; hard, moist, 10YR 4/3, brown
		0.2		38–39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B22
LOGGED BY: MM	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 90 ft bgs			
GROUND SURFACE ELEVATION: 280.724915		WATER LEVEL: 40	DATE: 03/01/16 / 03/01/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0940 / 1510
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				41		SAND, very fine to coarse-grained, little fine gravel, trace silt; loose, wet, 10YR 4/3, brown
	3/5	0.3		42		
				43		
		0.2	SW	44		
				45		
				46		
	3/5	0.3		47		
				48		
		0.3		49		
				50		
				51		
	2/5	0.3		52		
				53		
		0.3	SW	54		
				55		
				56		
	2.5/5	0.2		57		
				58		
		0.3		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B22
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 90 ft bgs			
GROUND SURFACE ELEVATION: 280.724915		WATER LEVEL: 40	DATE: 03/01/16 / 03/01/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0940 / 1510
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
	4.5/5	0.2	SW	61, 62, 63, 64, 65		SAND, very fine to coarse-grained, little fine gravel, trace silt; loose, wet, 10YR 4/3, brown
	3/5	0.3, 0.5	SW	66, 67, 68, 69, 70		SAND, very fine to coarse-grained, little fine gravel, trace silt; loose, wet, 10YR 4/2, dark grayish brown
	4/5	0.2, 0.3	SW	71, 72, 73, 74, 75, 76		SAND, very fine to coarse-grained, little fine gravel; loose, wet, 10YR 4/2, dark grayish brown
	1.5/5	0.1		77, 78		
B22-S-79		0.2		79		
B22-W-(80-76)						

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B22
LOGGED BY: MM	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 90 ft bgs			
GROUND SURFACE ELEVATION: 280.724915		WATER LEVEL: 40	DATE: 03/01/16 / 03/01/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0940 / 1510
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B22-W-(80-76) MS B22-W-(80-76) MSD	1/5	0.3 0.4	SM	81 82 83 84 85		SAND, very fine to coarse-grained, little fine gravel; loose, wet, 10YR 4/2, dark grayish brown SILTY SAND, very fine to medium-grained sand, trace large gravel, low plasticity; soft, wet, 10YR 5/4, gray
B22-W-(86-90) B22-S-89	5/5	0.4 0.4	SM	86 87 88 89 90		SILTY SAND, very fine to medium-grained sand, trace large gravel, low plasticity; soft, saturated, 10YR 5/4, gray
				91 92 93 94 95 96 97 98 99		End of Boring = 90' Refusal

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B23
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 93 ft bgs			
GROUND SURFACE ELEVATION: 281.033203		WATER LEVEL: 40	DATE: 03/15/16 / DATE: 03/16/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / TIME: 1900
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			FILL			Asphalt and silt; 10YR 2/1, black
			SW	1		SAND, fine to coarse-grained, trace gravel; dry, 10YR 4/4, dark yellowish brown
	2/5	0.2	CH	2, 3, 4		CLAY, high plasticity; dry, 10YR 4/4, dark yellowish brown
				4		SAND, fine to coarse-grained; dry, 10YR 4/4, dark yellowish brown
	0.66/5	4.2	SW	5, 6, 7, 8, 9		SAND, fine to coarse-grained, trace fine to large gravel; dry, 10YR 4/4, dark yellowish brown
	2/5	38.6	SW	10, 11, 12, 13, 14, 15, 16		SAND, fine to coarse-grained, trace fine to large gravel; moist, 10YR 4/4, dark yellowish brown
		15.2				
	2/5	55.8	SP	17		SAND, fine-grained; moist, 10YR 4/4, dark yellowish brown
		30.6	SW	18, 19		SAND, fine to coarse-grained, trace fine to large gravel; moist, 10YR 4/4, dark yellowish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B23
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 93 ft bgs			
GROUND SURFACE ELEVATION: 281.033203		WATER LEVEL: 40	DATE: 03/15/16 / 03/16/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1900
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
	2/5	10.0	SW	21, 22, 23		SAND, fine to coarse-grained, trace fine gravel; moist, 10YR 4/4, dark yellowish brown @21.-21.5' bgs crushed white stone
		33.1		24, 25		
	2.5/5	47.9		26, 27, 28		SAND, fine to coarse-grained; moist, 10YR 3/6, dark yellowish brown
		56.3	SW	29, 30		
	2/5	68.0		31, 32, 33		SAND, fine to coarse-grained; moist, 10YR 5/3, brown
		35.3		34, 35, 36		
	2.5/5	57.9	SW	37, 38		
		30.3		39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B23
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 93 ft bgs			
GROUND SURFACE ELEVATION: 281.033203		WATER LEVEL: 40	DATE: 03/15/16 / DATE: 03/16/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / TIME: 1900
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	1.5/5	31.6	SW	41–45		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 3/6, dark yellowish brown
B23-W-(46-50)	0.5/5	20.8	SW	45–56		SAND, fine to coarse-grained; wet, 10YR 3/3, dark brown @53-53.5' bgs crushed dark stone @53.5-54' bgs trace fine to large gravel
B23-W-(50-54)	4/5	3.0				
B23-W-(54-59)		1.7				
B23-S-56	4/5	44.1	CL	57		CLAY; wet, 10YR 3/3, dark brown
						SAND, fine to coarse-grained, some fine gravel; wet, 10YR 4/1, dark gray
			SW	58		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 3/3, dark brown
		5.0		59		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 4/1, dark gray

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B23
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 93 ft bgs			
GROUND SURFACE ELEVATION: 281.033203	WATER LEVEL: 40		DATE: 03/15/16 / DATE: 03/16/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0900 / TIME: 1900
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B23-W-(61-65)	3/5	18.1	SW	61, 62		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 4/1, dark gray
		7.4		63, 64		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 3/4, dark yellowish brown
	3/5	22.4	SW	65, 66, 67		SAND, fine to coarse-grained; wet, 10YR 3/4, dark yellowish brown
		23.5		68, 69, 70, 71		SAND, fine to coarse-grained; wet, 10YR 4/1, dark gray
	1.5/5	43.9		72, 73		
B23-W-(74-78)		92.9	SW	74		
B23-S-76	1.5/5	514.4		75, 76, 77		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 4/1, dark gray
B23-S-78 B23-W-(78-82) Dup-W-7		2000	SW	78, 79		

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B23
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 93 ft bgs			
GROUND SURFACE ELEVATION: 281.033203		WATER LEVEL: 40	DATE: 03/15/16 / 03/16/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1900
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				81		SAND, fine to coarse-grained - mostly coarse, some fine gravel; wet, 10YR 4/1, dark gray @90-93' bgs 2-3 feet of heave
	1.5/5	2.0		82		
				83		
		2.0	SP	84		
				85		
				86		
	1/5	1.4		87		
				88		
B23-W-(89-93)			SP	89		
				90		
				91		
	2.5/3	0.4		92		
B23-S-93		0.8		93		End of Boring = 93' Refusal
				94		
				95		
				96		
				97		
				98		
				99		

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B24
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 97 ft bgs			
GROUND SURFACE ELEVATION: 281.25		WATER LEVEL: 40	DATE: 03/14/16 / 03/14/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0800 / 1100
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			FILL			Gravel FILL
				1		SANDY CLAY, very fine to coarse-grained sand, some fine to large, sub-angular gravel, low plasticity; moist, 10YR 2/1, black
	2.5/5	29.5	CL	2		
				3		SILTY CLAY, trace very fine to coarse-grained sand, medium plasticity; stiff, moist, 10YR 4/3, brown
		8.5		4		SAND, very fine to coarse-grained, some fine to large, sub-angular gravel; loose, moist, 10YR 5/3, brown
				5		
				6		
	2/5	5.4	SW	7		
				8		
		2.7		9		
				10		
				11		
	2/5	1.0	SW	12		
				13		
		2.1		14		
				15		
				16		
	2.5/5	2.5		17		
				18		
		3.9	SW	19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B24
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 97 ft bgs			
GROUND SURFACE ELEVATION: 281.25		WATER LEVEL: 40	DATE: 03/14/16 / DATE: 03/14/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0800 / TIME: 1100
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	5.0		21, 22		SAND, very fine to coarse-grained, some fine to large, sub-angular gravel, little mottling; loose, moist, 10YR 5/3, brown
		4.2		23, 24		
	2.5/5	2.0	SW	25, 26, 27		
		2.5		28, 29, 30		
	2/5	2.5	SW	31, 32		
		1.9	SP	33, 34		SAND, very fine to coarse-grained - mostly fine; loose, moist, 10YR 6/3, pale brown
	2.5/5	2.0	SW	35, 36, 37		SAND, very fine to coarse-grained, some fine to large, sub-angular to sub-rounded gravel, little silt; medium dense, moist, 10YR 5/4, yellowish brown
		2.0		38, 39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B24
LOGGED BY: MM / CHECKED BY: AEL			SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 97 ft bgs			
GROUND SURFACE ELEVATION: 281.25	WATER LEVEL: 40		DATE: 03/14/16 / DATE: 03/14/16
DATUM: UTM NAD83	TIME		TIME: 0800 / TIME: 1100
COMMENTS:	DATE		
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	1.7	SW	41–44		SAND, very fine to coarse-grained, some fine to large, sub-angular to sub-rounded gravel, little silt; medium dense, wet, 10YR 5/4, yellowish brown @41-42' bgs 7.5YR 4/6, strong brown
		2.1				
B24-W-(47-51)	0/5			45–49		No recovery Rock at bottom of shoe
			SP	50		SAND, very fine to coarse-grained - mostly fine; loose, wet, 10YR 5/2, grayish brown
B24-S-51 B24-W-(51-55)			CL	51		SILTY CLAY, medium plasticity, little mottling; stiff, 10YR 4/1, dark gray
	3/5	1.8	SP	52		SAND, very fine to coarse-grained - mostly fine, little silt; loose, 10YR 5/2, gray
		3.8	SW	53–56		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray
B24-S-56	3.5/5	4.7	CL	57		SILTY CLAY, medium plasticity; stiff, 10YR 4/1, dark gray
		13.3	SP	58–59		SAND, very fine to coarse-grained - mostly fine; loose, wet, 10YR 5/1, gray
			SW			See next page

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B24
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 97 ft bgs			
GROUND SURFACE ELEVATION: 281.25	WATER LEVEL: 40		DATE: 03/14/16 / DATE: 03/14/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0800 / TIME: 1100
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B24-W-(61-65)	2.5/5	3.1	SW	61–62		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray @ 63-63.5' bgs mostly coarse-grained sand SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray @ 63-63.5' bgs mostly coarse-grained sand
B24-S-63		12.8		63–64		
	3/5	0.0	SW	65–67		
		0.9	GW	68–69		GRAVEL, fine to large, sub-angular to rounded, little very fine to coarse sand, little silt; loose, wet, 10YR 5/2, grayish brown
	4/5		SW	70–71		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray
	4/5	0.3		72		
B24-W-(74-78)		6.2	SP	73–76		SAND, very fine to coarse-grained - mostly medium, some silt; loose, wet, 10YR 5/2, grayish brown
	2.5/5	2.0	GW	77		GRAVEL, fine to large, sub-angular to rounded, little fine to coarse-grained sand, trace silt; loose, wet, 10YR 5/2, grayish brown
		3.3	SW	78–79		SAND, very fine to coarse-grained, little fine to large, sub-rounded to rounded gravel, trace silt; loose, wet, 10YR 5/2, grayish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B24
LOGGED BY: MM	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 97 ft bgs			
GROUND SURFACE ELEVATION: 281.25	WATER LEVEL: 40		DATE: 03/14/16 / DATE: 03/14/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0800 / TIME: 1100
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				81		SAND, very fine to coarse-grained, little fine to large, sub-rounded to rounded gravel, trace silt; loose, wet, 10YR 5/2, grayish brown
	4.5/5	0.9		82		
				83		
		4.2	SW	84		
				85		
				86		
	4/5	3.5		87		
B24-W-(88-92)				88		
		4.5	SW	89		
				90		
B24-S-91				91		
	2/5	2.8		92		
				93		SILTY SAND, very fine to coarse-grained sand, cohesive; medium dense, wet, 10YR 4/2, dark, grayish brown
		6.0	SM	94		
				95		
B24-S-96	1/2	0.1		96		
				97		End of Boring = 97' Refusal
				98		
				99		

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B25
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 281.148163		WATER LEVEL: 42	DATE: 03/11/16 / DATE: 03/11/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0853 / TIME: 1615
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			FILL	1		SILTY CLAY, trace very fine to coarse-grained sand, low to medium plasticity - FILL; soft, wet, 10YR 2/1, black
	3/5	0.1		2		SAND, very fine to coarse-grained, some fine to large gravel; loose, dry, 10YR 5/3, brown
		0.1	SW	3		
				4		
				5		SAND, very fine to coarse-grained, some fine to large gravel; loose, moist, 10YR 5/3, brown @10-15' interval, rock at bottom of shoe
	2.5/5	0.1		6		
				7		
		0.1		8		
				9		
				10		No recovery, rock at bottom of shoe
	1/5	0.2	SW	11		
				12		
		10.2		13		
				14		
				15		SAND, very fine to coarse-grained - mostly fine, some fine to large, sub-angular to sub-rounded gravel; loose, moist, 10YR 6/4, light yellowish brown
	2.5/5	0.2	SP	16		
				17		
				18		
		0.6		19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B25
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 281.148163		WATER LEVEL: 42	DATE: 03/11/16 / 03/11/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0853 / 1615
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	6.4	SP	21–30		SAND, very fine to coarse-grained - mostly fine, some fine to large, sub-angular to sub-rounded gravel; loose, moist, 10YR 6/4, light yellowish brown
	2.5/5	22.0, 6.4, 5.5				
	2/5	5.3, 54.8	SP	31–35		SAND, very fine to coarse-grained - mostly fine; loose, dry to moist, 10YR 6/3, light yellowish brown
	2/5	59.3, 17.5	SW	35–39		SAND, very fine to coarse-grained, little fine to large, sub-angular to sub-rounded gravel; loose, moist, 10YR 5/3, brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B25
LOGGED BY: MM	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 281.148163		WATER LEVEL: 42	DATE: 03/11/16 / DATE: 03/11/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0853 / TIME: 1615
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			SW	41		SAND, very fine to coarse-grained, little fine to large, sub-angular to sub-rounded gravel; loose, moist to wet, 10YR 6/3, dark yellowish brown
	2.5/5	11.2		42		SAND, very fine to coarse-grained - mostly fine, little fine, sub-angular to sub-rounded gravel; loose, wet, 10YR 5/4, yellowish brown
		316.0	SP	43		
B25-W-(45-49)				44		
				45		
				46		
	5/5	116.4		47		SAND, very fine to coarse-grained, trace fine to large, sub-rounded to rounded gravel; loose, wet, 10YR 4/1, dark gray
			SW	48		
B25-S-49		2000	CL	49		SILTY CLAY, medium plasticity; soft, moist, 10YR 4/1, dark gray
B25-S-50				50		SAND, very fine to coarse-grained, trace fine to large, sub-rounded to rounded gravel; loose, wet, 10YR 4/1, dark gray
Dup-W-7 (not sure where this one goes)	2.5/5	2000	SW	51		
B25-S-53				52		
Dup-S-4		2000	CL	53		
B25-W-(54-58)				54		SILTY CLAY, medium plasticity; soft, moist, 10YR 4/1, dark gray
B25-S-55				55		SAND, very fine to fine-grained - mostly very fine, some silt; medium dense, wet, 10YR 4/1, dark gray
Dup-S-5						SAND, very fine to coarse-grained - mostly fine, little silt; medium dense, wet, 10YR 4/1, dark gray
Dup-W-8			SP	56		
	2.5/5	1011		57		
B25-S-58				58		
B25-W-(58-62)		2000	SW	59		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B25
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 281.148163		WATER LEVEL: 42	DATE: 03/11/16 / 03/11/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0853 / 1615
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	444.7	SW	61–69		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/1, dark gray
B25-S-65		81.6				
B25-W-(65-69)	2.5/5	1446				
B25-W-(69-73)		70.3	SP	69–70		SAND, coarse-grained, some fine to large, sub-rounded to rounded gravel, little silt; loose, wet, 10YR 4/1, dark gray
B25-W-(73-77)	2/5	27.7	SW	70–79		SAND, very fine to coarse-grained, little fine to large, sub-rounded to rounded gravel; loose, wet, 10YR 4/1, dark gray
		53.7				
	4/5	5.3	SW			
		56.0	SP	79		SAND, very fine to coarse-grained - mostly fine, little silt; medium dense, wet, 10YR 5/2, grayish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B25
LOGGED BY: MM	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 281.148163		WATER LEVEL: 42	DATE: 03/11/16 / 03/11/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0853 / 1615
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	5/5	1.3	SW	81, 82, 83		SAND, very fine to coarse-grained, little silt; wet, medium dense, 10YR 5/2, grayish brown @83' bgs mostly fine-grained SAND
B25-S-84		3.8		84		
				85		End of Boring = 85'
B25-W-(93-92)				86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B26
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.458099		WATER LEVEL: 31	DATE: 03/08/16 / 03/08/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1430
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.0	CL	1, 2		SANDY CLAY, very fine to coarse-grained sand, trace fine to large, sub-angualr gravel, low plasticity; moist, 10YR 2/1, black
		1.5		3, 4		SAND, very fine to coarse-grained, some fine to large gravel, trace silt; loose, moist, 10YR 4/3, brown
	2.5/5	3.4	SW	5, 6, 7		
		4.6		8, 9		
	2.5/5	2.5		10, 11, 12		
		3.6	SW	13, 14		
	2.5/5	6.1		15, 16, 17		
		17.5		18, 19		SAND, very fine to coarse-grained, little silt; loose, moist, 10YR 5/3, brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B26
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.458099		WATER LEVEL: 31	DATE: 03/08/16 / 03/08/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1430
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	31.4	SW	21–27		SAND, very fine to coarse-grained, little silt; loose, moist, 10YR 5/3, brown
		9.4				
	2/5	2.9				
		15.4	SW	27–31		SAND, very fine to coarse-grained, some fine to large, sub-angular to sub-round gravel, some silt, little mottling; loose, moist 10 YR 4/4, dark yellowish brown
B26-W-(31-35)	3/5	39.2		31–35		SAND, very fine to coarse-grained - mostly fine, some silt; loose, wet, 10 YR 5/4, yellowish brown @ 34.5-35' bgs, very fine to coarse-grained
			SP			
B26-S-34		59.3				
			SM	35–36		SILTY SAND, very fine-grained sand, no to low plasticity, some mottling; medium stiff, wet, 10YR 5/3, brown
	3/5	63.4	SW	37		SAND, very fine to coarse-grained; loose, wet, 10YR 5/3, brown
		22.6	SP	38–39		SAND, very fine to coarse-grained - mostly medium, little silt, trace fine to large, sub-angular to sub-rounded gravel; loose, wet, 10YR 4/2, dark grayish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B26
LOGGED BY: MM	CHECKED BY: AEL		SHEET 3 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.458099		WATER LEVEL: 31	DATE: 03/08/16 / 03/08/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1430
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3/5	23.5	SP	41–43		SAND, very fine to coarse-grained - mostly medium, little silt, trace fine to large, sub-angular to sub-rounded gravel; loose, wet, 10YR 4/2, dark grayish brown
B26-W-(48-44) Dup-W-6		42.8		44–46		
B26-S-47 DUP-S-3	4/5	769.2	SP	47–48		
		49.5	CL	48–49		SILTY CLAY, some very fine to coarse-grained sand, trace fine to large, sub-rounded to rounded gravel, medium plasticity; soft, wet, 10YR 4/2, dark grayish brown
B26-W-(50-54)			SP	50–51		SAND, very fine to fine-grained - mostly fine, little silt; loose, wet, 10YR 5/2, grayish brown
	5/5	0.9		52		
B26-S-53			SP	53		SAND, very fine to fine-grained - mostly very fine; medium dense, wet, 10YR 5/2, grayish brown
B26-W-(54-58)		3.4	SM	54		SILTY SAND, very fine-grained, low plasticity; soft, wet, 10YR 5/2, grayish brown
	5/5	25.6	SP	55–57		SAND, very fine to coarse-grained - mostly fine; loose, wet, 10YR 4/2, dark grayish brown
B26-S-58 DUP-S-4		81.3	SW	58		SAND, very fine to coarse-grained; loose, wet, 10YR 4/2, dark grayish brown
B26-W-(60-64)		70.2		59		SAND, very fine-grained, some silt; medium dense, wet, 10YR 5/2, grayish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B26
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.458099		WATER LEVEL: 31	DATE: 03/08/16 / 03/08/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1430
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	4/5	9.9	SP	61, 62, 63		SAND, very fine-grained, some silt; medium dense, wet, 10YR 5/2, grayish brown
		7.7	SP	64		SAND, very fine to coarse-grained - mostly coarse, some fine to large, sub-angular to sub-rounded gravel; loose, wet, 10YR 4/2, dark grayish brown
	5/5	0.2	SW	65, 66, 67, 68		SAND, very fine to coarse-grained, trace fine to large, sub-angular to sub-rounded gravel, trace silt; loose, wet, 10YR 4/2, dark grayish brown
		0.2		69		
B26-W-(70-74)				70		
	4/4	2.9		71, 72		
B26-S-73				73		
				74		End of Boring = 74'
				75, 76		
B26-W-(77-81)				77		
				78, 79		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B27
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.886993		WATER LEVEL: 38	DATE: 03/23/16 / 03/23/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0653 / 1410
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
			FILL			Concrete flooring
				1		SAND, very fine to coarse-grained, some fine, sub-angular to sub-rounded gravel; loose, dry, 10YR 6/3, pale brown
	3/ 4.66	0.0		2		
				3		
		0.0	SW	4		
				5		
				6		
	3/ 5	0.0		7		
				8		
		0.0		9		
				10		
				11		
	2/ 5	0.0	SW	12		
				13		
		0.0		14		
				15		
				16		
	2.5/ 5	0.0		17		
				18		
		0.0		19		

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B27
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.886993		WATER LEVEL: 38	DATE: 03/23/16 / DATE: 03/23/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0653 / TIME: 1410
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	0.0	SP	21–22		SAND, very fine to coarse-grained - mostly fine, little fine to large, sub-angular to sub-rounded gravel, trace silt; loose, dry, 10YR 6/3, pale brown @28-30' bgs some gravel
		0.0		23–24		
	2.5/5	0.0	SP	25–27		
		0.0		28–29		
	3/5	0.0	SP	30–32		SAND, very fine to coarse-grained - mostly fine, trace silt; moist, loose, 10YR 6/3, pale brown @32-34.5' bgs wet, 10YR 5/4, yellowish brown
		0.0		33–34		
				35		SILTY CLAY, low plasticity; medium stiff, moist, 10YR 5/3, brown
	5/5	0.9	CL	36–37		SILTY CLAY, low plasticity; medium stiff, trace mottling, moist, 10YR 5/3, brown @35.5-38' bgs soft and sticky
		1.9	SW	38–39		SAND, very fine to coarse-grained, little silt, trace fine gravel, strong odor; wet, 10YR 4/1, dark gray

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B27
LOGGED BY: MM / CHECKED BY: AEL			SHEET 3 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.886993	WATER LEVEL: 38		DATE: 03/23/16 / DATE: 03/23/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0653 / TIME: 1410
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				41		SAND, very fine to coarse-grained, little silt, trace fine gravel, strong odor; wet, 10YR 4/1, dark gray
B27-W-(42-46)	5/5	0.3	SW	42		
B27-S-43				43		
		2.5		44		
B27-S-45				45		
				46		SAND, very fine to coarse-grained - mostly medium, trace silt, slight odor; loose, wet, 10YR 4/1, dark gray @52-53' bgs some fine, sub-rounded gravel
	2/5	3.0		47		
			SP	48		
		1.4		49		
				50		
B27-W-(51-55)				51		
	4.5/5	0.0		52		
				53		
		0.1		54		
B27-S-55				55		
B27-W-(55-59)				56		SILTY SAND, very fine-grained sand, no plasticity, slight odor; dense, wet, 10YR 5/2, grayish brown
B27-S-57	5/5	0.0	SM	57		
			SP			SAND, very fine to coarse-grained - mostly fine; loose, wet 10YR 5/2, grayish brown
				58		SILTY SAND, very fine-grained sand, no plasticity, slight odor; dense, wet 10YR 5/2, grayish brown
B27-W-(59-63)		0.7	SM	59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B27
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 74 ft bgs			
GROUND SURFACE ELEVATION: 278.886993		WATER LEVEL: 38	DATE: 03/23/16 / 03/23/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0653 / 1410
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3.5/5	1.7	SM	61, 62		SILTY SAND, very fine-grained sand, no plasticity, slight odor; dense, wet 10YR 5/2, grayish brown
B27-S-63			SW	63		SAND, very fine to coarse-grained, some silt; loose, wet, 10YR 5/2, grayish brown
		0.5	SM	64		SILTY SAND, very fine-grained sand, no plasticity, slight odor; dense, wet, 10YR 5/2, grayish brown
B27-W-(65-69)			SP	65		SAND, coarse-grained, with fine, sub-rounded to rounded gravel; loose, wet, 10YR 5/2, grayish brown
						Rock
	1/5	0.0	SC	66, 67, 68		CLAYEY SAND, very fine to coarse-grained sand, little fine to large, sub-angular to sub-rounded gravel, no to low plasticity; very dense, wet, 10YR 5/2, grayish brown
		0.5		69		
B27-W-(70-74)				70		SAND, very fine to coarse-grained - mostly fine, some silt; medium loose, wet, 10YR 5/1, gray
	2.5/4	3.5	SP	71, 72		
B27-S-73				73		
		2.8		74		End of Boring = 74' Refusal
				75, 76, 77, 78, 79		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B28
LOGGED BY: MM	CHECKED BY: AEL		SHEET 1 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 73 ft bgs			
GROUND SURFACE ELEVATION: 276.915771		WATER LEVEL: 29	DATE: 03/07/16 / 03/07/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0850 / 1330
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
						Concrete slough
	2/5	0.1	SW	1, 2		SAND, very fine to coarse-grained, some fine to large, sub-angular to sub-rounded gravel, little silt; loose, dry, 10YR 4/3, brown
		0.1		3, 4		
	2.5/5	0.1		5, 6, 7		
		5.3	SW	8, 9		
	2.5/5	2.2		10, 11, 12		
		3.5		13, 14		
	2.5/5	3.3		15, 16, 17		SAND, very fine to coarse-grained, little fine to large, sub-angular to sub-rounded gravel, little silt; loose, dry, 10YR 4/3, brown
		4.1	SW	18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B28
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 73 ft bgs			
GROUND SURFACE ELEVATION: 276.915771		WATER LEVEL: 29	DATE: 03/07/16 / 03/07/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0850 / 1330
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			SW	21		SAND, very fine to coarse-grained, little fine to large, sub-angular to sub-rounded gravel, little silt; loose, dry, 10YR 4/3, brown
	2.5/5	1.1		22		
B28-S-23			SP	23		SAND, very fine to coarse-grained - mostly fine, trace fine, sub-angular to sub-rounded gravel; loose, moist, 10YR 5/4, yellowish brown
		1.1		24		
				25		SAND, very fine to coarse-grained - mostly fine, trace fine, sub-angular to sub-rounded gravel; loose, moist, 10YR 3/6, dark yellowish brown
				26		
	2.5/5	9.5	SP	27		
				28		
		1.1		29		
			SW			SAND, very fine to coarse-grained, trace fine, sub-angular to sub-rounded gravel; loose, wet, 10YR 5/4, yellowish brown
				30		SAND, very fine to coarse-grained, trace sub-angular to sub-rounded, fine to large gravel, trace silt; loose, wet, 10YR 4/6, dark yellowish brown
				31		
	4/5	0.3	SW	32		
				33		
		0.8		34		
				35		GRAVEL, fine to large, sub-angular to sub-rounded, little very fine to coarse-grained sand; loose, wet, 10YR 4/3, brown
			GW	36		
	2/5	1.2		37		SAND, very fine to fine-grained - mostly fine, trace fine, sub-angular to sub-rounded gravel; medium dense, wet, 10YR 5/4, yellowish brown
				38		
B28-W-(39-43)		1.3	SP	39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B28
LOGGED BY: MM / CHECKED BY: AEL			SHEET 3 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 73 ft bgs			
GROUND SURFACE ELEVATION: 276.915771	WATER LEVEL: 29		DATE START: 03/07/16 / DATE FINISH: 03/07/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 0850 / TIME FINISH: 1330
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	1/5	1.4	SP	41–42		SAND, very fine to fine-grained - mostly fine, trace fine, sub-angular to sub-rounded gravel, trace silt; medium dense, wet, 10YR 5/4, yellowish brown
		2.3	SP	43–44		SILTY SAND, very fine to fine-grained sand, low plasticity; soft, wet, 10YR 5/2, grayish brown
	0/5			45–49		No recovery
	3/5	0.2		50–51		SAND, very fine to coarse-grained; loose, wet, 10YR 5/2 @ 54.9' bgs little fine to large, sub-angular to sub-rounded gravel
B28-W-(53-57)			SW	52–53		
		0.2		54–55		
			SW	56		
	2/5	0.3		57		
B28-S-58			SP	58		SAND, very fine to fine-grained, some silt; medium dense, wet, 10YR 4/2, dark grayish brown
		0.3		59		
			SM			SILTY SAND, very fine-grained sand; medium dense, wet, 10YR 4/2, dark grayish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B28
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 73 ft bgs			
GROUND SURFACE ELEVATION: 276.915771		WATER LEVEL: 29	DATE: 03/07/16 / 03/07/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0850 / 1330
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B28-W-(61-65)	3/5	0.3	SP	61, 62, 63		SAND, very fine to fine-grained, some silt; medium dense, wet, 10YR 4/2, dark grayish brown
B28-S-64		0.9	SW	64, 65		SAND, very fine to coarse-grained, trace fine to large gravel, strong odor; wet, 10YR 4/2, dark grayish brown
B28-W-(69-73)	5/5	0.2	SW	66, 67, 68, 69, 70		SAND, very fine to coarse-grained, trace fine to large gravel; wet, 10YR 4/2, dark grayish brown
B28-S-72	3/3	1.0	SW	71, 72, 73		SAND, very fine to coarse-grained, some sub-angular to sub-rounded, fine to large gravel, trace silt; loose, wet, 10YR 5/1, gray
B28-W-(77-81)				74, 75, 76, 77, 78, 79		End of Boring = 73' Refusal

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B29
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 280.522217	WATER LEVEL: 40		DATE: 02/23/16 / DATE: 02/25/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0900 / TIME: 1400
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			OL			Organic SILT; dry, 10YR 2/1, black
	2/5	0.0	CL	1–5		SANDY CLAY, medium plasticity; dry, 10YR 3/2, dark grayish brown
	2/5	0.1	SW	5–10		SAND, fine to coarse-grained, trace fine gravel; moist, 10YR 4/4, dark yellowish brown
		0.1				
	2/5	2.1	SW	10–19		SAND, fine to coarse-grained, trace fine gravel; moist, 10YR 4/4, dark yellowish brown
		0.9				
	2/5	5.2				
		25.7				

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B29
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 280.522217		WATER LEVEL: 40	DATE: 02/23/16 / 02/25/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1400
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	0.25/ 5	0.9	SW	21–25		SAND, fine to coarse-grained, with fine to large gravel; moist, 10YR 4/4, dark yellowish brown (very little recovery)
	0/ 5			25–30		No recovery
	2/ 5	32.2		30–33		SAND, fine to coarse-grained; moist, 10YR 4/4, dark yellowish brown @ 33' bgs color change to 10YR 5/4, yellowish brown
B29-S-34		40.1	SW	33–36		
	2/ 5	4.8		36–38		
		0.1		38–39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B29
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 280.522217		WATER LEVEL: 40	DATE: 02/23/16 / 02/25/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1400
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	1.5/5	0.1	SW	41, 42		SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown @ 43' bgs color change to 10YR 5/1, gray
		0.2		43, 44		
	0/5			45, 46, 47, 48, 49		No recovery
B29-W-(50-54)	1/5	354.7		50, 51, 52		SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown @ 58' bgs one inch of gravel
B29-S-53			SW	53		
DUP-2				54, 55		
DUP-W-1				56		
	4/5	13.1	SW	57, 58		
		0.8		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B29
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 280.522217		WATER LEVEL: 40	DATE: 02/23/16 / 02/25/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1400
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.0		61, 62		SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown
		0.0	SW	63, 64		
	2/5	0.0		65, 66, 67		
		0.1		68, 69		
	2.5/5	0.2		70, 71, 72		
B29-W-(74-78)		0.3	SW	73, 74		
	5/5	0.9		75, 76, 77		
		1.2		78, 79		
B29-S-80						

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B29
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 85 ft bgs			
GROUND SURFACE ELEVATION: 280.522217	WATER LEVEL: 40		DATE: 02/23/16 / DATE: 02/25/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0900 / TIME: 1400
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			SW			SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown
	5/5	2.9	ML	81		SILT; wet, 10YR 4/4, dark yellowish brown
				82		
				83		
		1.7		84		
				85		End of Boring = 85' Refusal
				86		
				87		
				88		
				89		
				90		
				91		
				92		
				93		
				94		
				95		
				96		
				97		
				98		
				99		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B30
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 98 ft bgs			
GROUND SURFACE ELEVATION: 281.023468		WATER LEVEL: 40	DATE: 02/24/16 / 02/25/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1600
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3.5/5	0.3	OL	1		Organic SILT; dry, 10YR 2/1, black
			SW	2, 3		SAND, fine to coarse-grained, some small gravel; dry, 10YR 3/2, very dark grayish brown
			CH	4		Fat CLAY; dry, 10YR 4/6, dark yellowish brown
	2.5/5	0.6	SW	5, 6, 7		SAND, fine to coarse-grained; dry, 10YR 4/4, dark yellowish brown
		0.4		8, 9, 10		
	1/5	0.5	SW	11, 12, 13		
	2.5/5	0.7		14, 15, 16, 17		
		0.4	SW	18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B30
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 98 ft bgs			
GROUND SURFACE ELEVATION: 281.023468		WATER LEVEL: 40	DATE: 02/24/16 / 02/25/16
DATUM: UTM NAD83		TIME	TIME: 0900 / 1600
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				21		SAND, fine to coarse-grained; dry, 10YR 4/4, dark yellowish brown
	2/5	0.5	SW	22		
				23		
		1.5		24		
				25		No recovery
				26		
	0/5			27		
				28		
				29		
				30		SAND, fine to coarse-grained; moist, 10YR 4/4, dark yellowish brown
				31		
	2/5	6.6	SW	32		
				33		
		53.1		34		
				35		SAND, fine to coarse-grained; moist, 10YR 4/4, dark yellowish brown
B30-S-36				36		
	2.5/5	801.8	SW	37		
				38		
		318.9		39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B30
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 98 ft bgs			
GROUND SURFACE ELEVATION: 281.023468		WATER LEVEL: 40	DATE: 02/24/16 / DATE: 02/25/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / TIME: 1600
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				41		SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown
	4/5	0.8		42		@45.5-46.5' bgs SILTY SAND
B30-W-(41-45)				43		@47' bgs color change to 10YR 3/1, very dark gray
		0.7		44		
B30-S-45			SW	45		
				46		
	3/5	5.8		47		
				48		
		4.6		49		
				50		
				51		
	4/5	1.1		52		
				53		
		0.8	SW	54		
				55		
				56		
	3.5/5	0.7		57		
				58		
		0.9		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B30
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 98 ft bgs			
GROUND SURFACE ELEVATION: 281.023468		WATER LEVEL: 40	DATE: 02/24/16 / 02/25/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1600
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	4.5/5	0.9	SW	61–64		SAND, fine to coarse-grained; wet, 10YR 3/1, very dark gray
		1.5		64–67		
	1.5/5	0.9	SW	67–71		
	2/5	0.3	SP	71–72		SAND, coarse-grained, with fine to large gravel; wet, 10YR 4/4, dark yellowish brown
		1.3	SP	72–76		SAND, fine to medium-grained; wet, 10YR 4/4, dark yellowish brown
			SW	76		SAND, fine to coarse-grained, some fine gravel; wet, 10YR 4/4, dark yellowish brown
						SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown
	4.5/5	0.8	SP	77–79		SAND, fine to medium-grained; wet, 10YR 4/4, dark yellowish brown
		5.5				

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B30
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 98 ft bgs			
GROUND SURFACE ELEVATION: 281.023468		WATER LEVEL: 40	DATE: 02/24/16 / 02/25/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0900 / 1600
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	4.5/5	0.5	SP	81–85		same as previous five-foot interval with changes in gravel content from top to bottom mostly likely due to increasing pressure of downward moving geoprobe
		2.6				
	5/5	0.9	SP	85–90		SAND, fine to medium-grained; wet, 10YR 4/4, dark yellowish brown
		1.6				
	2.5/5	1.2	SW	90–95		SAND, fine to coarse-grained; wet, 10YR 4/4, dark yellowish brown
		2.0				
B30-W-(94-98)	1.5/3	1.3	SC	95–98		CLAYEY SAND, fine to coarse-grained; wet, 10YR 4/3, brown Not clear if confining layer due to refusal
B30-S-98				98–99		End of Boring = 98' Refusal

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B31
LOGGED BY: BJK/MM	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 84 ft bgs			
GROUND SURFACE ELEVATION: 281.049164		WATER LEVEL: 40.5	DATE: 02/24/16 / 02/27/16
DATUM: UTM NAD83		TIME	TIME: 1515 / 1230
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	6.3	OL	1		Organic silt; dry, 10YR 2/1, black
			SW	2–10		SAND, fine to coarse-grained, trace fine gravel; dry, 10YR 4/4, dark yellowish brown
	2/5	3.4				
		1.2	SW			
	0/5			10–15		No recovery
	2/5	0.4	SW	15–19		SAND, fine to coarse-grained, some fine and large gravel; dry, 10YR 4/4, dark yellowish brown
		0.3				

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B31
LOGGED BY: BJK/MM	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 84 ft bgs			
GROUND SURFACE ELEVATION: 281.049164		WATER LEVEL: 40.5	DATE: 02/24/16 / 02/27/16
DATUM: UTM NAD83		TIME	TIME: 1515 / 1230
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B31-S-33	2.5/5	0.1	SW	21, 22		SAND, fine to coarse-grained, some fine and large gravel; dry, 10YR 4/4, dark yellowish brown
		0.1		23, 24		
	2/5	0.0	SW	25, 26, 27		
		0.3		28, 29		
	2.5/5	0.4		30, 31, 32		SAND, very fine to coarse-grained, little fine gravel; loose, dry, 2.5Y 6/3, light yellowish brown
		107.8	SW	33, 34		
	2.5/5	14.3		35, 36, 37		
		2.6	SP	38, 39		SAND, very fine to coarse-grained - mostly coarse, some fine gravel; loose, moist 7.5YR 4/4, brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B31
LOGGED BY: BJK/MM	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 84 ft bgs			
GROUND SURFACE ELEVATION: 281.049164	WATER LEVEL: 40.5		DATE: 02/24/16 / 02/27/16
DATUM: UTM NAD83	TIME		TIME: 1515 / 1230
COMMENTS:	DATE		
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
						SAND, very fine to coarse-grained - mostly coarse, trace large gravel; moist, loose, 7.5YR 4/4, brown
				41		SAND, very fine to coarse-grained - mostly fine, little silt; loose, wet, 10YR 5/3, brown
B31-W-(43-47)	2.5/5	6.7	SP	42		
		0.6		43		
				44		
				45		SAND, very fine to coarse-grained - mostly fine, little silt; wet, loose, wet, 10YR 4/1, dark gray
				46		
B31-S-47	4/5	0.9	SP	47		
B31-W-(48-52)			SM	48		SILTY SAND, very fine-grained sand, cohesive; dense, wet, 10YR 4/1, dark gray
		19.5		49		SAND, very fine to coarse-grained, trace fine gravel; loose, wet, 10YR 5/3, brown @ 50-50.5' bgs mostly coarse-grained
			SW	50		
				51		
B31-S-52	3/5	5.2		52		
B31-S-53			CL	53		SILTY CLAY, low plasticity; medium dense, moist, 10YR 4/1, dark gray
B31-W-(53-57)		26.7	SP	54		SAND, medium to fine-grained - mostly fine; medium dense, moist to wet, 10YR 4/1, dark gray
				55		
				56		SAND, very fine to coarse-grained, little fine to large gravel; loose, wet, 10YR 4/1, dark gray
	3.5/5	0.9	SW	57		
				58		
		1.5		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B31
LOGGED BY: BJK/MM	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 84 ft bgs			
GROUND SURFACE ELEVATION: 281.049164		WATER LEVEL: 40.5	DATE: 02/24/16 / 02/27/16
DATUM: UTM NAD83		TIME	TIME: 1515 / 1230
COMMENTS:		DATE	
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3.5/5	0.2	SW	61, 62		SAND, very fine to coarse-grained, little fine to large gravel; loose, wet, 10YR 4/1, dark gray @ 64.8-65' bgs some fine to large, sub-angualr to sub-rounded gravel @ 66-70' bgs little fine to large gravel @ 74-75.2' bgs some fine gravel
		0.4		63, 64		
	2.5/5	0.6		65, 66, 67		
		0.9		68, 69		
	4/5	1.4	SW	70, 71, 72		
		0.9		73, 74		
	3/5	1.5	SW	75, 76, 77		
		2.4		78, 79		

B31-W-(80-84)

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B31
LOGGED BY: BJK/MM	CHECKED BY: AEL		SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 84 ft bgs			
GROUND SURFACE ELEVATION: 281.049164	WATER LEVEL: 40.5		DATE: 02/24/16 / 02/27/16
DATUM: UTM NAD83	TIME		TIME: 1515 / 1230
COMMENTS:	DATE		
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B31-S-83	4/4	2.7	SW	81, 82		SAND, very fine to coarse-grained, little fine to large gravel; loose, wet, 10YR 4/1, dark gray
		4.9	SP	83, 84		SAND, very fine to medium-grained - mostly fine, little silt; loose, wet, 10YR 4/1, dark gray
				84		End of Boring = 84' Refusal
				85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B32
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING
BORING DEPTH: 94 ft bgs			START / FINISH
GROUND SURFACE ELEVATION: 280.028259		WATER LEVEL: 37	DATE: 02/22/16 / DATE: 02/25/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0915 / TIME: 1100
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
	3/5	0.0	OL	1, 2		Organic SILT; dry, 10YR 2/1, black
	2.5/5	0.2	SW	3, 4, 5, 6, 7		SAND, fine to coarse-grained, trace fine gravel; dry, 10YR 4/4, dark yellowish brown
		0.0		8, 9		
	2.5/5	2.6	SW	10, 11, 12		SAND, fine to coarse-grained; dry, 10YR 4/4, dark yellowish brown
		0.0		13, 14		
	2.5/5	0.5		15, 16, 17		
		0.8		18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B32
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.028259	WATER LEVEL: 37		DATE START: 02/22/16 / DATE FINISH: 02/25/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 0915 / TIME FINISH: 1100
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.3	SW	21, 22		SAND, fine to coarse-grained, some fine and large gravel; dry, 10YR 4/4, dark yellowish brown
		0.8		23, 24		
	2.5/5	0.0		25, 26, 27		
		0.1		28, 29		
	2/5	0.2	SW	30, 31, 32		SAND, fine to coarse-grained, some fine and large gravel; moist, 10YR 4/4, dark yellowish brown
		0.1		33, 34		
	2/5	0.2		35, 36, 37		
B32-S-38 DUP-1		13.6	SW	38, 39		SAND, fine to coarse-grained, some fine and large gravel; wet, 10YR 4/4, dark yellowish brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B32
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.028259	WATER LEVEL: 37		DATE: 02/22/16 / 02/25/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0915 / 1100
	CASING DEPTH		

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
	0.5/5	9.6	SP	41–45		SAND, fine to medium-grained, faint odor; wet, 10YR 2/1, black
	0.17/5			45–50		No recovery Large gravel
	4/5	0.0	SW	50–53		SAND, fine to coarse-grained; wet, 10YR 2/1, black
		0.1		53–56		
	3.5/5	0.0		56–59		
		0.0		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B32
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 4 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.028259		WATER LEVEL: 37	DATE: 02/22/16 / 02/25/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 0915 / 1100
		CASING DEPTH	

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS: LITHOLOGIC DESCRIPTION
				61		SAND, fine to coarse-grained; wet, 10YR 2/1, black
	4/5	0.0	SW	62		
				63		
		0.0		64		
				65		
				66		
	3/5	0.0		67		
				68		
		0.0		69		
				70		
				71		
	2/5	0.0	SW	72		
				73		
B32-W-(73-77)		0.0		74		
				75		
				76		
B32-S-77	2/5	0.9		77		CLAYEY SAND; wet, 10YR 4/2, dark grayish brown
				78		
		0.0	SC	79		

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B32
LOGGED BY: BJK / CHECKED BY: AEL			SHEET 5 OF 5
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 94 ft bgs			
GROUND SURFACE ELEVATION: 280.028259	WATER LEVEL: 37		DATE: 02/22/16 / DATE: 02/25/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0915 / TIME: 1100
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
						CLAYEY SAND; wet, 10YR 4/2, dark grayish brown
				81		
	2.5/5	0.0		82		
				83		
		0.0	SC	84		
				85		
				86		
	2.5/5	0.0		87		
				88		
		0.3		89		CLAYEY SAND; soft, wet, 10YR 4/2, dark grayish brown
				90		
				91		
B32-W-(90-94)	4/4	0.4	SC	92		
				93		
B32-S-94-MS B32-S-94-MSD B32-S-94		0.0		94		
				95		End of Boring = 94.5' Refusal
				96		
				97		
				98		
				99		

ENVIRO (NO WELL) ST LOUIS PARK.GPJ BORING LOGS.GPJ 5/11/16

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B37
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 53 ft bgs			
GROUND SURFACE ELEVATION: 279.6362		WATER LEVEL: 35	DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 1730 / TIME FINISH: 1900
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	3/5	0.0	SP	1, 2		SAND, fine-grained; dry, 10YR 4/3, brown
		0.0	CL	3, 4, 5		CLAY, medium plasticity; dry, 10YR 4/3, brown
	2.5/5	0.0	SW	6, 7		SAND, fine to coarse-grained, trace fine and large gravel; dry, 10YR 4/3, brown
		0.0		8, 9		
	2.5/5	0.1	SW	10, 11, 12		SAND, fine to coarse-grained; dry, 10YR 4/3, brown
		0.0		13, 14		
	2/5	0.0	SW	15, 16, 17		SAND, fine to coarse-grained, fine and large gravel; dry, 10YR 4/3, brown
		0.0		18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B37
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 53 ft bgs			
GROUND SURFACE ELEVATION: 279.6362	WATER LEVEL: 35		DATE: 03/17/16 / DATE: 03/17/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 1730 / TIME: 1900
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	0.0	SW	21–25		SAND, fine to coarse-grained; dry, 10YR 4/3, brown
	2.5/5	0.1	SW	25–32		SAND, fine to coarse-grained, some fine and large gravel; moist, 10YR 4/3, brown
	3/5	0.0	CL	32–33		SANDY CLAY, low plasticity; moist, 10YR 4/3, brown
		0.0	SP	33–35		SAND, fine-grained, some fine and large gravel; moist, 10YR 4/3, brown
	1/5	0.3	SP	35–39		SAND, fine-grained; wet, 10YR 4/3, brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B37
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 53 ft bgs			
GROUND SURFACE ELEVATION: 279.6362	WATER LEVEL: 35		DATE START: 03/17/16; DATE FINISH: 03/17/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 1730; TIME FINISH: 1900
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B37-W-(41-45)	1.5/5	0.4	SP	41–45		SAND, fine-grained; wet, 10YR 4/3, brown @41' bgs color change to 10YR 4/6, dark yellowish brown
B37-S-45			CH	46		CLAY, high plasticity; wet, 10YR 4/6, dark yellowish brown
B37-W-(49-53)	1.5/5	0.6	SP	46–50		Fine SAND-grained, some large and small gravel; wet, 10YR 4/6, dark yellowish brown
B37-S-50	0.16/3			50–53		No recovery
				53		End of Boring = 53' Refusal

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B38
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 60 ft bgs			
GROUND SURFACE ELEVATION: 279.967743		WATER LEVEL: 45	DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 1200 / TIME FINISH: 1700
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			SP	1		Organic SAND; dry, 10YR 2/1, black
	2/5	0.0		2		SAND, fine to coarse-grained, with fine and large gravel; dry, 10YR 3/2, very dark grayish brown
		0.0	SW	3, 4		
				5		SAND, fine to coarse-grained, some fine and large gravel; dry, 10YR 4/4, dark yellowish brown
	2/5	0.1		6, 7		
		0.1		8, 9		
	2/5	0.2	SW	10, 11, 12		
		0.3		13, 14		
	2/5	0.2		15, 16, 17		
		0.1	SW	18, 19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B38
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 60 ft bgs			
GROUND SURFACE ELEVATION: 279.967743		WATER LEVEL: 45	DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 1200 / TIME FINISH: 1700
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				21		SAND, fine to coarse-grained, some fine and large gravel; dry, 10YR 4/4, dark yellowish brown
	2.5/5	0.3	SW	22		
				23		
		0.3		24		
				25		
				26		
	2/5	0.2		27		
				28		
		0.5	SW	29		
				30		No recovery
				31		
	0/5			32		
				33		
				34		
				35		SAND, fine to coarse-grained, some fine and large gravel; moist, 10YR 4/4, dark yellowish brown
			SW	36		
	1.5/5	0.0		37		
				38		
				39		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B38
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 3 OF 3
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 60 ft bgs			
GROUND SURFACE ELEVATION: 279.967743		WATER LEVEL: 45	DATE: 03/17/16 / 03/17/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME: 1200 / 1700
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				41		SAND, fine to coarse-grained, some fine and large gravel; moist10YR 4/4, dark yellowish brown
B38-S-42	2.5/5	0.0	SW			
			CH	42		CLAY, high plasticity; moist, 10YR 4/4, dark yellowish brown
				43		SAND, fine to coarse-grained, some fine and large gravel; moist, 10YR 4/4, dark yellowish brown
		0.0	SW	44		
B38-W-(45-49)				45		SAND, fine to coarse-grained, some fine and large gravel; wet, 10YR 4/4
				46		
	2.5/5	0.0	SW	47		
				48		
B38-S-49		0.0	CH	49		CLAY, high plasticity; wet, 10YR 4/4, dark yellowish brown
				50		SAND, fine to coarse-grained, some fine and large gravel; wet, 10YR 4/4, dark yellowish brown
				51		SAND, fine to coarse-grained, some fine and large gravel; wet, 10YR 4/2, dark grayish brown @58-60' bgs very tight
	0.25/5	0.1	SW	52		
				53		
				54		
				55		
B38-W-(56-60)				56		
	2/5			57		
				58		
			SW	59		End of Boring = 60' Refusal
B38-S-60						

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B39
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 1 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 61 ft bgs			
GROUND SURFACE ELEVATION: 280.123383	WATER LEVEL: 45		DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 0815 / TIME FINISH: 1130
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			OL			Organic SILT; dry, 10YR 2/1, black
			OL	1		SANDY CLAY, tree roots, low plasticity; dry, 10YR 4/3, brown
	2.5/5			2		SAND, fine to coarse-grained, trace small and large gravel; dry, 10YR 4/3 to 3/6, brown to dark yelllowish brown
			SW	3		
		4.7		4		
				5		SAND, fine to coarse-grained, trace small gravel; dry, 10YR 4/4, dark yellowish brown
	2.5/5	41.8	SW	6		
				7		
				8		
		14.8		9		
				10		SAND, fine to coarse-grained; dry, 10YR 4/3, dark yellowish brown
				11		
	2/5	70.3	SW	12		
				13		
		74.5		14		
				15		SAND, fine to coarse-grained; dry, 10YR 4/3, brown
				16		
	2.5/5	11.3	SW	17		
				18		
		11.7		19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B39
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 2 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 61 ft bgs			
GROUND SURFACE ELEVATION: 280.123383	WATER LEVEL: 45		DATE: 03/17/16 / DATE: 03/17/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME: 0815 / TIME: 1130
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2.5/5	22.6	SW	21–22		SAND, fine to coarse-grained, trace small and large gravel; dry, 10YR 4/3, brown
		22.2		23–24		
	2.5/5	18.0	SW	25–27		SAND, fine to coarse-grained, some small and large gravel; dry, 10YR 4/3, brown
		11.1		28–29		
	2.5/5	54.0	SW	30–32		fine to coarse-grained SAND, some small and large gravel; dry, 10YR 4/3, brown
		234.7		33–34		
	0.33/5	0.0	GW	35–39		Only 4" inches of recovery: large rocks and some sand; moist, 10YR 4/3, brown

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B39
LOGGED BY: BJK / CHECKED BY: AEL			SHEET 3 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 61 ft bgs			
GROUND SURFACE ELEVATION: 280.123383	WATER LEVEL: 45		DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 0815 / TIME FINISH: 1130
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	0/5			41–44		No recovery
				45		SAND, fine to coarse-grained; wet, 10YR 3/4, brown
B39-W-(48-52)	0.5/5	0.0	SW	46–51		
B39-S-53	3.5/5	0.2	CH	52		CLAY, high plasticity; wet, 10YR 3/4, brown
B39-W-(53-57)		0.2	SW	53–54		SAND, fine to coarse-grained; wet, 10YR 3/4, brown @54' bgs gray
			SW	55–56		SAND, fine to coarse-grained; wet, gray
B39-S-57	3/5	0.5	CH	57		CLAY, high plasticity; wet, 10YR 3/4, brown
B39-W-(57-61)		0.3	SW	58–59		SAND, fine to coarse-grained; wet, gray

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B39
LOGGED BY: BJK	CHECKED BY: AEL		SHEET 4 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 61 ft bgs			
GROUND SURFACE ELEVATION: 280.123383		WATER LEVEL: 45	DATE START: 03/17/16 / DATE FINISH: 03/17/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 0815 / TIME FINISH: 1130
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
B39-S-61	0.5/ 1	0.4	SW	61		SAND, fine to coarse-grained, very tight; wet, 10YR 3/4, brown
						End of Boring = 61'
				62		
				63		
				64		
				65		
				66		
				67		
				68		
				69		
				70		
				71		
				72		
				73		
				74		
				75		
				76		
				77		
				78		
				79		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA	JOB NO.: 60482513	LOCATION: St Louis Park, MN	
PROJECT: St Louis Park	DRILLING METHOD: Geoprobe		BORING NO. B43
LOGGED BY: MM / CHECKED BY: AEL			SHEET 1 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark / EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve		DRILLING START / FINISH
BORING DEPTH: 77 ft bgs			
GROUND SURFACE ELEVATION: 280.039612	WATER LEVEL: 40.1		DATE START: 03/22/16 / DATE FINISH: 03/22/16
DATUM: UTM NAD83	TIME		
COMMENTS:	DATE		TIME START: 1024 / TIME FINISH: 1500
	CASING DEPTH		

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
			SM	1		SILTY SAND, very fine to coarse-grained sand, little clay, low plasticity; moist, 10YR 2/1, black
	1/5	0.2	SW	2		SAND, very fine to coarse-grained, some fine to coarse, sub-angular to sub-rounded gravel, little silt; loose, dry, 10YR 6/3, pale brown
				3		
		0.2		4		
				5		
				6		
	3/5	0.2		7		
				8		
		0.2		9		
				10		
				11		
	2.5/5	0.2	SW	12		
				13		
		0.2		14		
				15		
				16		
	2/5	0.2		17		
				18		
		0.2	SW	19		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B43
LOGGED BY: MM	CHECKED BY: AEL		SHEET 2 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 77 ft bgs			
GROUND SURFACE ELEVATION: 280.039612		WATER LEVEL: 40.1	DATE START: 03/22/16 / DATE FINISH: 03/22/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 1024 / TIME FINISH: 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.2	SW	21–27		SAND, very fine to coarse-grained, some fine to coarse, sub-angular to sub-rounded gravel, little silt; loose, moist, 10YR 6/3, pale brown
	2.5/5	0.1	SP	27–29		SAND, very fine to medium-grained - mostly fine, trace mottling; loose, moist, 10YR 6/3, pale brown
	2.5/5	0.2	SW	29–35		SAND, very fine to coarse-grained, some fine to coarse, sub-angular to sub-rounded gravel, little silt; loose, moist, 10YR 6/3, pale brown
	1/5	0.1	SP	35–39		SAND, very fine to medium-grained - mostly fine; loose, mosit, 10YR 6/3, pale brown

AECOM

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B43
LOGGED BY: MM	CHECKED BY: AEL		SHEET 3 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 77 ft bgs			
GROUND SURFACE ELEVATION: 280.039612		WATER LEVEL: 40.1	DATE START: 03/22/16 / DATE FINISH: 03/22/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME START: 1024 / TIME FINISH: 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
	2/5	0.1	SP	41–44		SAND, very fine to medium-grained - mostly fine, trace fine, sub-rounded gravel; loose, wet, 10YR 5/2, grayish brown @40'-40.1' bgs loose rock, some large gravel
B43-W-(45-49)		0.7	SP	44–46		SAND, very fine to fine-grained - mostly very fine, little silt, trace fine, rounded gravel; loose, wet, 10YR 5/2
	3/5	0.3	SP	46–48		SAND, very fine to coarse-grained - mostly fine, little fine to large, sub-angular to sub-rounded gravel; loose, 10YR 5/2
B43-S-49 B43-W-(49-53)		2.7	SW	48–49		SAND, very fine to coarse-grained, trace fine to large, sub-rounded gravel; loose, 10YR 5/2
			CL	50		SILTY CLAY, medium plasticity; soft, moist, 10YR 5/1, gray
				51		SAND, very fine to fine-grained, some silt; loose, wet, 10YR 5/2, grayish brown
	2.5/5	0.9	SP	51–53		SAND, very fine to coarse-grained - mostly fine, little silt; loose, wet, 10YR 5/2, grayish brown
B43-S-53 B43-W-(53-57)		17.5		54–59		SAND, very fine to coarse-grained - mostly fine, little fine to large, sub-angular to rounded gravel; loose, wet, 10YR 5/2, grayish brown @53.5' bgs some fine to large gravel
B43-W-(57-61)	2/5	0.1	SP	57		
		0.4		59		

ENVIRONMENTAL BORING LOG

CLIENT: MPCA		JOB NO.: 60482513	LOCATION: St Louis Park, MN
PROJECT: St Louis Park		DRILLING METHOD: Geoprobe	BORING NO. B43
LOGGED BY: MM	CHECKED BY: AEL		SHEET 4 OF 4
DRILLING CONTR.: Matrix			
DRILLER: Erik Widmark	EQUIP.: Geoprobe / Dual Tube	SAMPLING METHOD: Grab / Acetate Sleeve	DRILLING START / FINISH
BORING DEPTH: 77 ft bgs			
GROUND SURFACE ELEVATION: 280.039612		WATER LEVEL: 40.1	DATE 03/22/16 / DATE 03/22/16
DATUM: UTM NAD83		TIME	
COMMENTS:		DATE	TIME 1024 / TIME 1500
		CASING DEPTH	

SURFACE CONDITIONS:

SAMPLE ID	RECOVERED (ft) / DRIVEN (ft)	PID/FID (ppm)	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	LITHOLOGIC DESCRIPTION
				61		SAND, very fine to coarse-grained - mostly fine, little fine to large, sub-angular to rounded gravel; loose, wet, 10YR 5/2, grayish brown @61-61.5' bgs some fine to large, sub-rounded to rounded gravel @71.5-72' bgs some fine, sub-angular to rounded gravel
	2.5/5	0.2	SP	62		
				63		
		0.0		64		
				65		
				66		
	2.5/5	0.5		67		
B43-W-(68-72)				68		
		0.1	SP	69		
				70		
B43-S-71				71		
	4/5	0.4		72		SILTY SAND, very fine; dense, wet, 10YR 5/1, gray
B43-W-(73-77)				73		
		10.5	SM	74		
		4.9		75		
B43-S-76				76		
	2/2	5.7		77		End of Boring = 77' Refusal
				78		
				79		

Appendix C

Sub-Slab and Indoor Air Sample Collection Forms

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: Ben Klaus
Unusual Conditions
Location 6538 building complex (Car Cleaners etc)
Sample ID number SSV-29 Date sampled 4-1-16
Describe sampling point

Weather:
Project SLP Investigation FY16
AECOM project number 60482513
Time

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = 4
Soil type beneath slab (i.e. silt, sand or clay) = Sand.
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes =

PURGING INFORMATION:

Purging method (i.e. syringe) = Syringe
Sample train volume purged = 2240
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes =

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes
Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -27
Final vacuum reading (in. of Hg) = -3
Sample canister volume = 6 liter
Sample start time = 1430
Sample end time = 1509
Sample canister number = 0715
Vacuum regulator number =
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes =

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SSV-30 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~3"
Soil type beneath slab (i.e. silt, sand or clay) = Sand.
Permanent or temporary point installed? ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☐ Yes ☒ Not applicable (temporary) Cap or stopper? = ☐ No ☐ Yes ☒ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = tried 3 times for flush mount: not enough thickness

PURGING INFORMATION:

Purging method (i.e. syringe) = syringe
Sample train volume purged = 240cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O, Clay

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -24 Final vacuum reading (in. of Hg) = -1
Sample canister volume = 6 liter
Sample start time = 1329 Sample end time = 1419
Sample canister number = 0160 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SG-31 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~4
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = first location would not seal b/c 3/4" bit cored too much.

PURGING INFORMATION:

Purging method (i.e. syringe) = 3g syringe
Sample train volume purged = 240cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -25 Final vacuum reading (in. of Hg) = -1
Sample canister volume = 6 liter
Sample start time = 1232 Sample end time = 1420
Sample canister number = 0257 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SSV-32 Date sampled 4-1-16 Time _____
Describe sampling point inside furnace room

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~4
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = inside of furnace room @ grand level near "warehouse"

PURGING INFORMATION:

Purging method (i.e. syringe) = syringe
Sample train volume purged = 240cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -27 Final vacuum reading (in. of Hg) = -3
Sample canister volume = 6 liter
Sample start time = 1456 Sample end time = 1536
Sample canister number = 0637 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SSV-33 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~5
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self
Notes = in boiler room in Cane Cleaners.

PURGING INFORMATION:

Purging method (i.e. syringe) = Syringe
Sample train volume purged = 300 cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O
Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -27 Final vacuum reading (in. of Hg) = -3
Sample canister volume = 6 liter
Sample start time = 1501 Sample end time = 1540
Sample canister number = 0171 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SG-34 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = 4"
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = between door into room + door to bathroom

PURGING INFORMATION:

Purging method (i.e. syringe) = syringe
Sample train volume purged = 340cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -27 Final vacuum reading (in. of Hg) = 0
Sample canister volume = 6 liter
Sample start time = 1330 Sample end time = 1420
Sample canister number = 1647 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SSV-35 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = 6"
Soil type beneath slab (i.e. silt, sand or clay) = sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = _____

PURGING INFORMATION:

Purging method (i.e. syringe) = syringe
Sample train volume purged = 240cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -29 Final vacuum reading (in. of Hg) = -1
Sample canister volume = 6 liter
Sample start time = 1333 Sample end time = 1422
Sample canister number = 0206 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: _____ Weather: _____
Unusual Conditions _____ Project SLP Investigation FY16
Location _____ AECOM project number 60482513
Sample ID number SSV-36 Date sampled 4-1-16 Time _____
Describe sampling point _____

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = 5"
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes = in storage room behind water heater.

PURGING INFORMATION:

Purging method (i.e. syringe) = syringe
Sample train volume purged = 240 cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes = _____

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes Size of regulator used (mL/min.)= 30 min
Initial vacuum reading (in. of Hg) = -27 Final vacuum reading (in. of Hg) = -2
Sample canister volume = 6 liter
Sample start time = 1430 Sample end time = 1510
Sample canister number = 0220 Vacuum regulator number = _____
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Notes = _____

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Vapor Intrusion Interior Building Survey Form

Remediation Program

Doc Type: Site Inspection Information

Part 1: Physical Building Inspection

Preparer's name: Ben Klaus Date/Time prepared:
Affiliation: ACCOM Phone number:

1. Occupant information

Occupant name(s): Various (using Cave Cleaners for odd) Interviewed: ☐ Yes ☒ No
Mailing address: 6528 W. Lake Street
City: St. Louis Park State: MN Zip code: 55426
Phone: Fax: E-mail:
Number of occupants at this location: Age range of occupants:

2. Owner/Landlord information (Check if same as occupant: ☐)

Occupant name(s): Don Paul Interviewed: ☐ Yes ☐ No
Mailing address: 10116 Alabama Circle
City: Bloomington State: MN Zip code: 55438
Home phone: 612-388-0265 Office phone: 952-835-6623

3. Building type (Check appropriate response)

☐ Residential ☐ Industrial ☐ School ☐ Church ☒ Commercial/Multi-use
☐ Other (specify):

If the property is residential, what type? (Check appropriate response)

☐ Ranch rambler ☐ Raised rambler ☐ Townhouses/Condos ☐ Duplex ☐ Modular ☐ 2-Family
☐ Split level ☐ Contemporary ☐ Apartment house ☐ Cape cod ☐ Log home ☐ 3-Family
☐ Colonial ☐ Mobile home ☐ Other (specify):

4. Building description

If the property is commercial or industrial, describe the business use(s):

Commercial: Dry cleaner, construction, printing, barber, nail salon, antiques, dress/tailoring shop, "hearing store"

Indicate the number of floors and general use of each floor of the building beginning with lowest level:

1-2 floors depending: basement is all storage w/ business on ground floor

If there are multiple residential units, indicate how many units: – When was building constructed: 1940s
Type of insulation used in building: Elevators or lifts: ☐ Yes ☒ No
Basement/Lowest level depth below grade: ~6-8' (feet)

Observed basement characteristics (Check all that apply)

Is basement/lowest level occupied:	☐ Full time	☐ Occasionally	☒ Almost never		
Basement type:	☒ Full	☐ Crawlspace	☐ Slab	☐ Other:	
Floor materials:	☒ Concrete	☐ Dirt	☐ Stone	☐ Other:	
Floor covering:	☒ Uncovered	☒ Covered	☐ Covered with:	Both covered & not; carpet & not	
Concrete floor:	☒ Unsealed	☒ Sealed	☐ Sealed with:	Sealed & unsealed in spots	
Foundation walls:	☐ Poured	☐ Block	☐ Stone	☐ Other:	
Basement finished:	☒ Unfinished	☐ Finished	☐ Partially finished		
Basement wetness:	☐ Wet	☐ Damp	☒ Seldom	☐ Moldy	
Sump pump present:	☐ Yes ☐ No	If yes, was water present: ☐ Yes ☐ No			

Indicate sources of water supply sources (i.e., drinking, irrigation, etc.) and type of sewage disposal (Check all that apply)

Water supply:	☒ Public water	☐ Drilled well	☐ Driven well	☐ Dug well
Sewage disposal:	☒ Public sewer	☐ Septic tank	☐ Leach field	☐ Dry well:

5. Heating, venting, air conditioning, or other building controls (Check all that apply)

Type of heating system(s) used in this building (Check all that apply)

☒ Hot air circulation ☐ Space heaters ☐ Electric baseboard ☐ In-floor heating ☐ Heat pump

☐ Steam radiation ☐ Wood stove ☐ Hot water baseboard ☐ Radiant floor ☐ Outdoor wood boiler

☐ Other (specify): _____ **Primary type:** _____

Primary type of fuel used (Check appropriate response)

☒ Natural gas ☐ Fuel oil ☐ Kerosene ☐ Electric ☐ Propane

☐ Solar ☐ Wood ☐ Coal

If hot water tank present, indicate fuel source: _____

Boiler/furnace is located in:	☒ Basement	☐ Outdoors	☒ Main floor	☐ Other:
Type of air conditioning:	☐ Central air	☐ Window units	☐ Open windows	☐ No mechanical system

Are there air distribution ducts present: ☐ Yes ☐ No

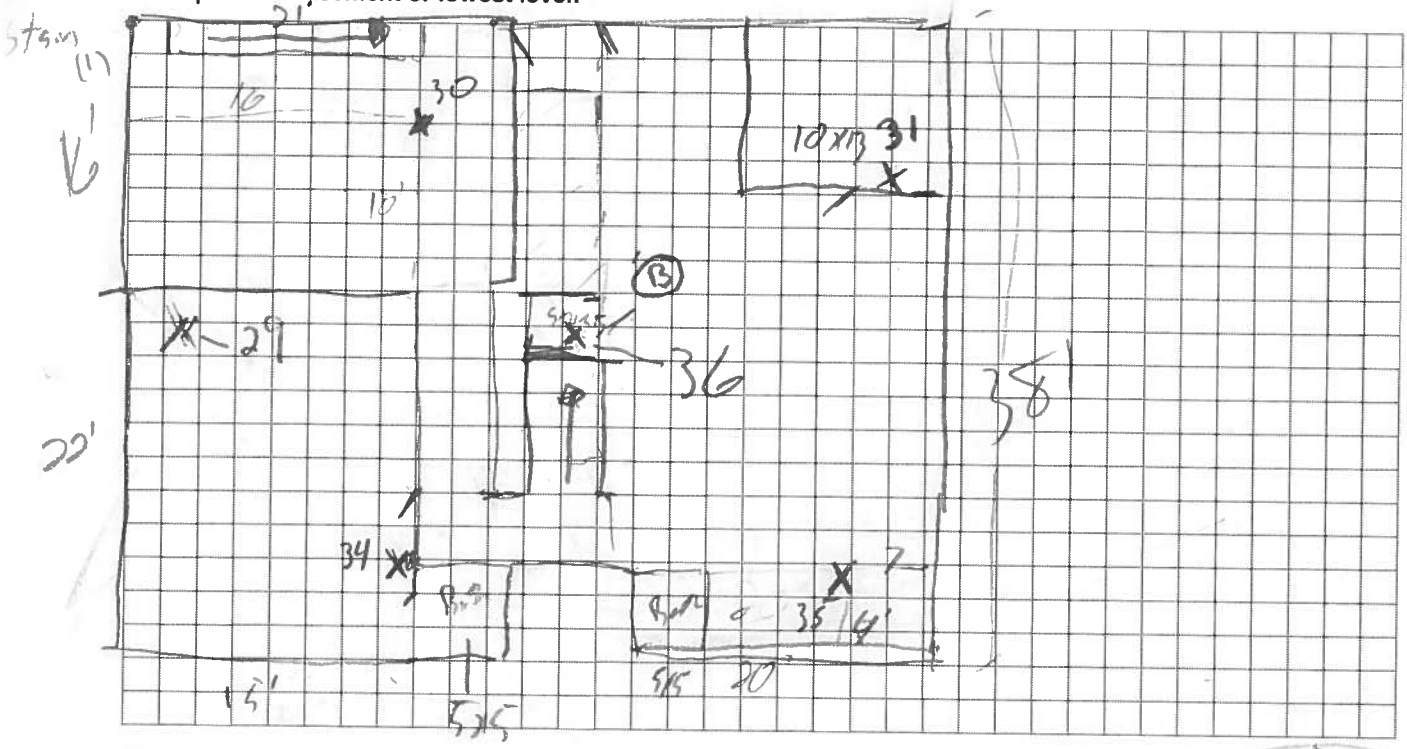
Describe the supply and cold air return ductwork and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Describe the type of mechanical ventilation systems used within or for the building (e.g., air-to-air exchangers, HVAC, etc.). Indicate whether the interior spaces of the building use separate ventilation systems and/or controls. Provide information on any existing building mitigation system (e.g., radon mitigation, passive venting systems, etc.). If available, provide information on air exchange rates for any existing mechanical ventilation systems currently in use.

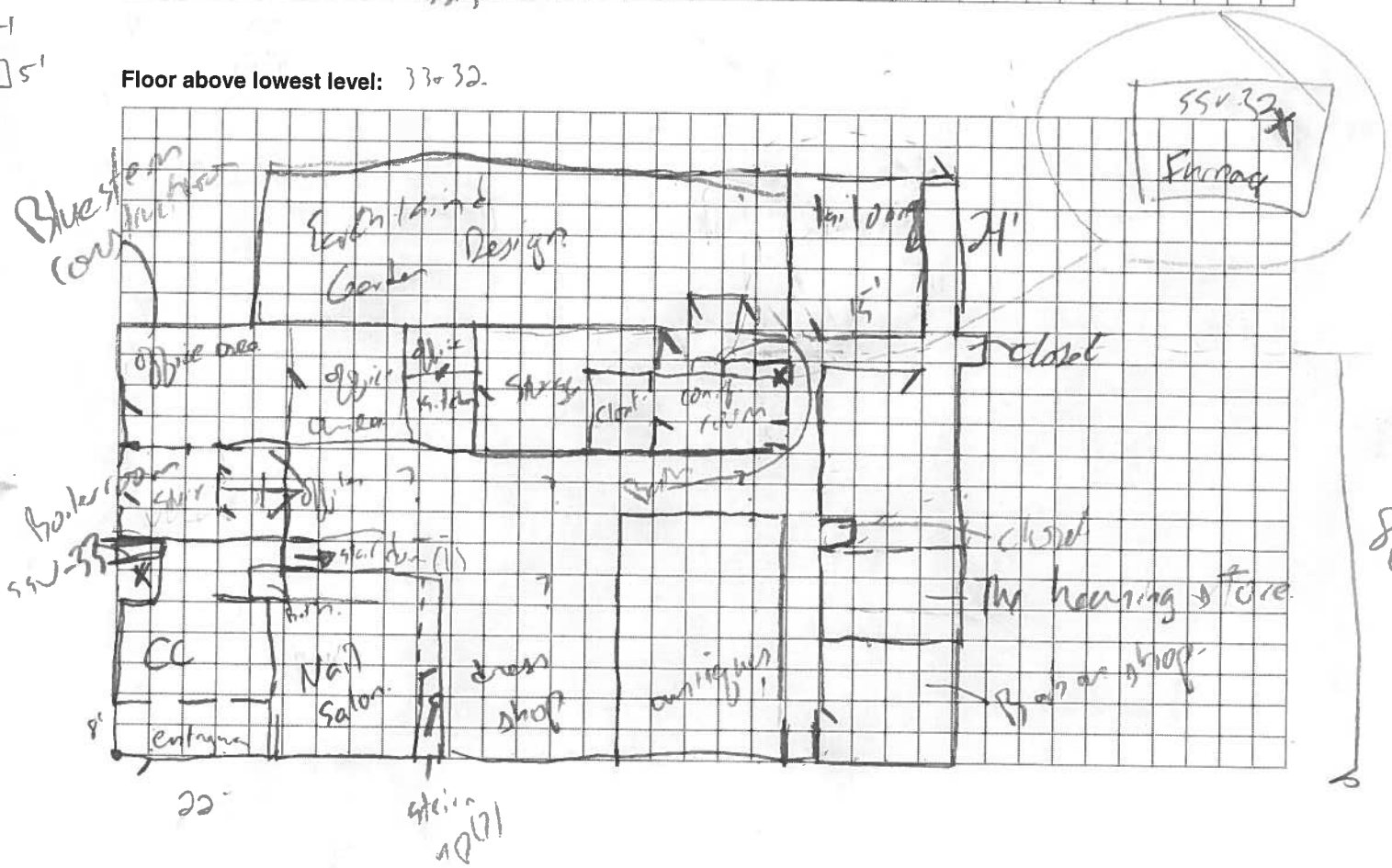
6. Grid plans

Use grid plans to describe floor plans, locate potential soil vapor entry points (e.g., cracks, utility ports, drains); and if applicable, identify sample locations (sub-slab, indoor air, outdoor air sampling).

Floor plan for basement or lowest level:



Floor above lowest level: 33 or 32.



Outdoor grid plot (Include if outdoor ambient air samples collected):

Insert sketch (or attach separate document) of the area outside the building and locate outdoor air sample locations. If applicable, provide information on spill locations, potential air contamination sources, locations of wells, septic system, etc., and PID meter readings. Indicate wind direction and speed during sampling.

Part 2: Indoor Air Quality Survey

Complete if indoor air sampling is conducted (use grids in Part 1 for labeling sampling locations).

Factors that may influence indoor air quality:

Is there an attached garage:	☐ Yes	☒ No	
Are petroleum-powered machines or vehicles stored in the garage (e.g., lawn mower, ATV, car):	☐ Yes	☒ No	Please specify:
Has the building ever had a fire:	☐ Yes	☐ No	When:
Is a kerosene or unvented gas space heater present:	☐ Yes	☒ No	Where & type:
Is there smoking in the building:	☐ Yes	☒ No	How frequently:
Have cleaning products been used recently:	☐ Yes	☐ No	When & type:
Have cosmetic products been used recently:	☐ Yes	☐ No	When & type:
Has painting/staining been done in the last 6 months:	☐ Yes	☐ No	Where & when:
Has any remodeling or construction occurred in the last 6 months:	☐ Yes	☐ No	Where & when:
Is there new carpet, drapes, or other textiles:	☐ Yes	☐ No	Where & when:
Have air fresheners been used recently:	☐ Yes	☐ No	When & type:

Is there a clothes dryer: ☒ Yes ☐ No If yes, is it vented outside: yes

Are there odors in the building: ☐ Yes ☒ No If yes, please describe:

Do any of the building occupants use solvents at work: ☐ Yes ☐ No

If yes, what types of solvents are used:

Do any of the building occupants regularly use or work at a dry-cleaning service: ☒ Yes ☐ No

If yes, indicate approximately how frequent: building has a dry cleaner

Product inventory form (Add additional rows if needed)

Make and model of field instrument used:

List specific products identified in the building that have the potential to affect indoor air quality:

Location	Product description*	Comments	Instrument readings if taken and units

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D). Include photographs of product containers as appropriate to document products and ingredients.

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: Ben Klaus
Unusual Conditions
Location 16600 W. Lake Street
Sample ID number B-SSV-1 Date sampled 4-1-16
Describe sampling point

Weather:
Project SLP Investigation FY16
AECOM project number 60482513
Time 0830

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~6" -4"
Soil type beneath slab (i.e. silt, sand or clay) = sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = Self
Notes =

PURGING INFORMATION:

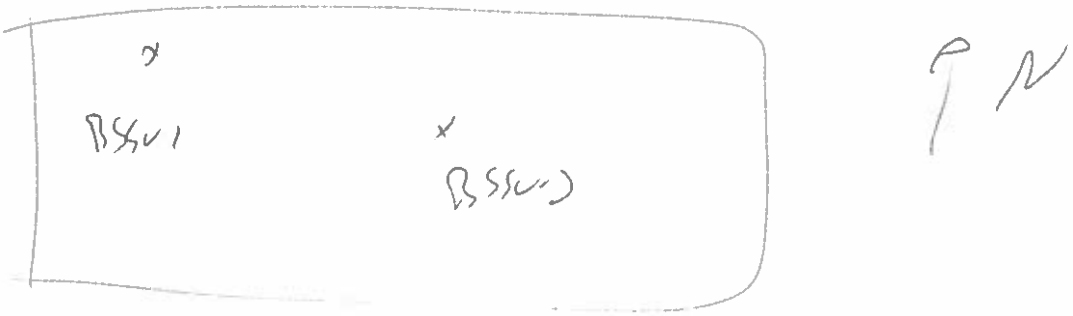
Purging method (i.e. syringe) = Syringe
Sample train volume purged = 240
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O
Notes =

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes
Initial vacuum reading (in. of Hg) = -30
Sample canister volume = 6 liter
Sample start time = 907
Sample canister number = 0621
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units PID reading in ambient air = N/A PID units

Size of regulator used (mL/min.)= 30 min
Final vacuum reading (in. of Hg) = -2
Sample end time = 951
Vacuum regulator number =

Notes =



P N

AECOM

SUB-SLAB SOIL GAS SAMPLING DATA SHEET

Sampler's Name: Ben Klaus
Unusual Conditions
Location 6600 W. Lake
Sample ID number B55U-2 Date sampled 4-1-16
Describe sampling point

Weather:
Project SLP Investigation FY16
AECOM project number 60482513
Time 0830

SAMPLE POINT CONSTRUCTION:

Type of vapor point installed = Cox-colvin
Concrete slab thickness = ~6"
Soil type beneath slab (i.e. silt, sand or clay) = Sand
Permanent or temporary point installed? = ☒ Permanent ☐ Temporary
Flush mount? = ☐ No ☒ Yes ☐ Not applicable (temporary) Cap or stopper? = ☐ No ☒ Yes ☐ Not applicable (temporary)
Sample port located away from footings and/or short circuit pathways (i.e. floor drains)? ☐ No ☒ Yes
Type of surface seal used (i.e. bentonite) = self

Notes =

PURGING INFORMATION:

Purging method (i.e. syringe) = Syringe
Sample train volume purged = 240 cc
Leak test/pressure performed and passed? = ☐ No ☒ Yes Type of leak/pressure test = H_2O

Notes =

SAMPLING INFORMATION

Vacuum regulator used? = ☐ No ☒ Yes
Initial vacuum reading (in. of Hg) = -28
Sample canister volume = 6 liter
Sample start time = 907
Sample canister number = 1522
Lab analysis (i.e. TO-15) = TO-15
PID lamp (i.e. 10.6 eV or 11.7 eV) = N/A
PID reading in vapor point post collection= N/A PID units

Size of regulator used (mL/min.)= 30 min
Final vacuum reading (in. of Hg) = -2
Sample end time = 0949
Vacuum regulator number =

PID reading in ambient air = N/A PID units

Notes =

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Vapor Intrusion Interior Building Survey Form

Remediation Program

Doc Type: Site Inspection Information

Part 1: Physical Building Inspection

Preparer's name: Ben Klaus Date/Time prepared: 4.1.16 / 0900
Affiliation: Arcom Phone number: 612-326-2465

1. Occupant information

Occupant name(s): Richard Rohn Interviewed: ☑ Yes ☐ No
Mailing address: 6622 W. Lake Street
City: St. Louis Park State: MN Zip code: 55426
Phone: 952-929-5232 Fax: E-mail:
Number of occupants at this location: Age range of occupants:

2. Owner/Landlord information (Check if same as occupant: ☐)

Occupant name(s): Interviewed: ☐ Yes ☐ No
Mailing address:
City: State: Zip code:
Home phone: Office phone:

3. Building type (Check appropriate response)

☑ Residential ☑ Industrial ☐ School ☐ Church ☐ Commercial/Multi-use
☐ Other (specify):

If the property is residential, what type? (Check appropriate response)

☐ Ranch rambler ☐ Raised rambler ☐ Townhouses/Condos ☐ Duplex ☐ Modular ☐ 2-Family
☑ Split level ☐ Contemporary ☐ Apartment house ☐ Cape cod ☐ Log home ☐ 3-Family
☐ Colonial ☐ Mobile home ☐ Other (specify):

4. Building description

If the property is commercial or industrial, describe the business use(s):

Welding Shop

Indicate the number of floors and general use of each floor of the building beginning with lowest level:

2 floors: 1st: Welding Shop
2nd: Apartments.

If there are multiple residential units, indicate how many units: When was building constructed: 1940
Type of insulation used in building: None? Elevators or lifts: ☐ Yes ☑ No
Basement/Lowest level depth below grade: — (feet)

Observed basement characteristics (Check all that apply)

Is basement/lowest level occupied:	☐ Full time	☒ Occasionally	☐ Almost never		
Basement type:	☐ Full	☐ Crawlspace	☐ Slab	☐ Other:	
Floor materials:	☒ Concrete	☐ Dirt	☐ Stone	☐ Other:	
Floor covering:	☒ Uncovered	☐ Covered	☐ Covered with:		
Concrete floor:	☒ Unsealed	☐ Sealed	☐ Sealed with:		
Foundation walls:	☐ Poured	☒ Block	☐ Stone	☐ Other:	
Basement finished:	☐ Unfinished	☐ Finished	☐ Partially finished		
Basement wetness:	☐ Wet	☐ Damp	☐ Seldom	☐ Moldy	
Sump pump present:	☐ Yes ☐ No	If yes, was water present: ☐ Yes ☐ No			

Indicate sources of water supply sources (i.e., drinking, irrigation, etc.) and type of sewage disposal (Check all that apply)

Water supply:	☒ Public water	☐ Drilled well	☐ Driven well	☐ Dug well
Sewage disposal:	☒ Public sewer	☐ Septic tank	☐ Leach field	☐ Dry well:

5. Heating, venting, air conditioning, or other building controls (Check all that apply)

Type of heating system(s) used in this building (Check all that apply)

☐ Hot air circulation ☒ Space heaters ☐ Electric baseboard ☐ In-floor heating ☐ Heat pump
☐ Steam radiation ☐ Wood stove ☐ Hot water baseboard ☐ Radiant floor ☐ Outdoor wood boiler
☐ Other (specify): _____ **Primary type:** _____

Primary type of fuel used (Check appropriate response)

☒ Natural gas ☐ Fuel oil ☐ Kerosene ☐ Electric ☐ Propane
☐ Solar ☐ Wood ☐ Coal

If hot water tank present, indicate fuel source: _____

Boiler/furnace is located in:	☐ Basement	☐ Outdoors	☒ Main floor	☐ Other:
Type of air conditioning:	☐ Central air	☐ Window units	☒ Open windows	☐ No mechanical system

Are there air distribution ducts present: ☐ Yes ☒ No

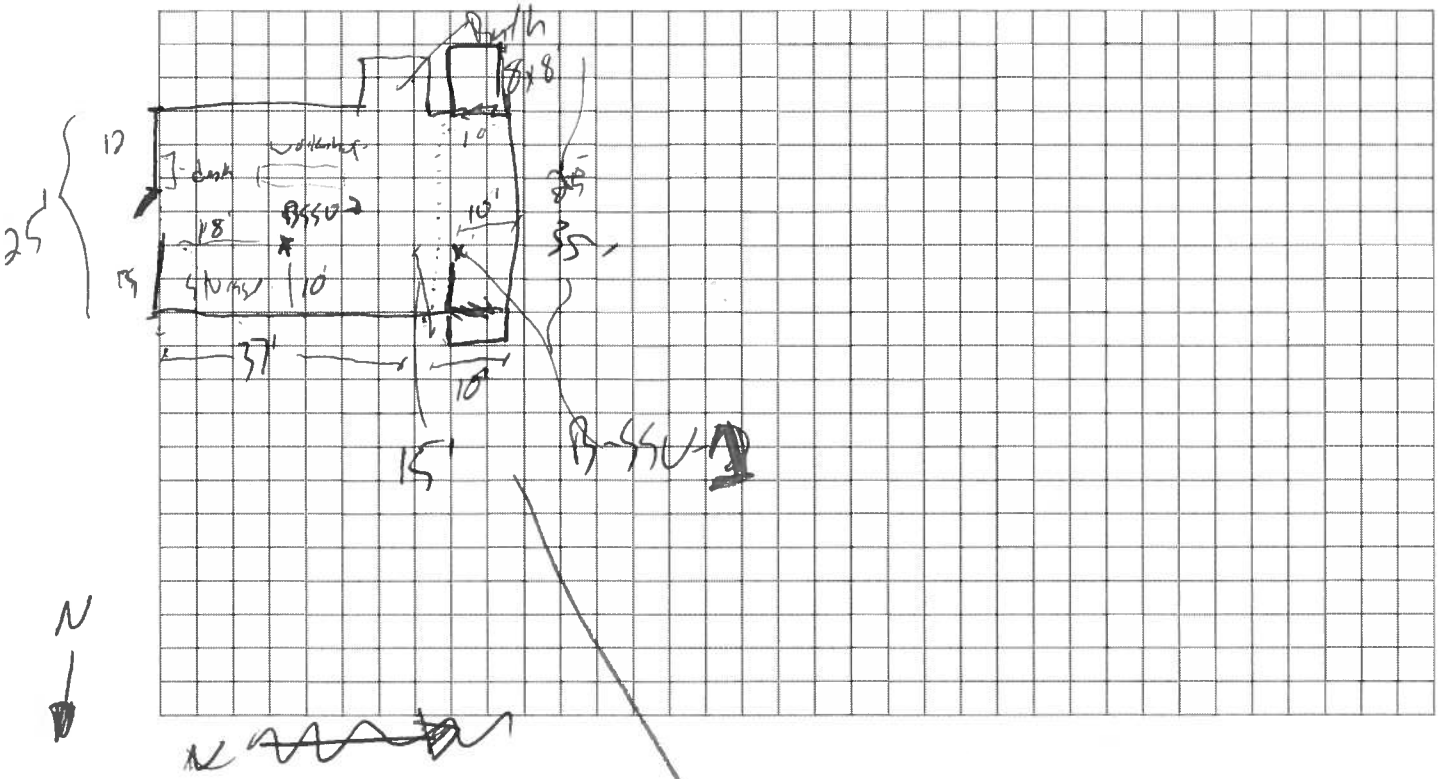
Describe the supply and cold air return ductwork and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Describe the type of mechanical ventilation systems used within or for the building (e.g., air-to-air exchangers, HVAC, etc.). Indicate whether the interior spaces of the building use separate ventilation systems and/or controls. Provide information on any existing building mitigation system (e.g., radon mitigation, passive venting systems, etc.). If available, provide information on air exchange rates for any existing mechanical ventilation systems currently in use.

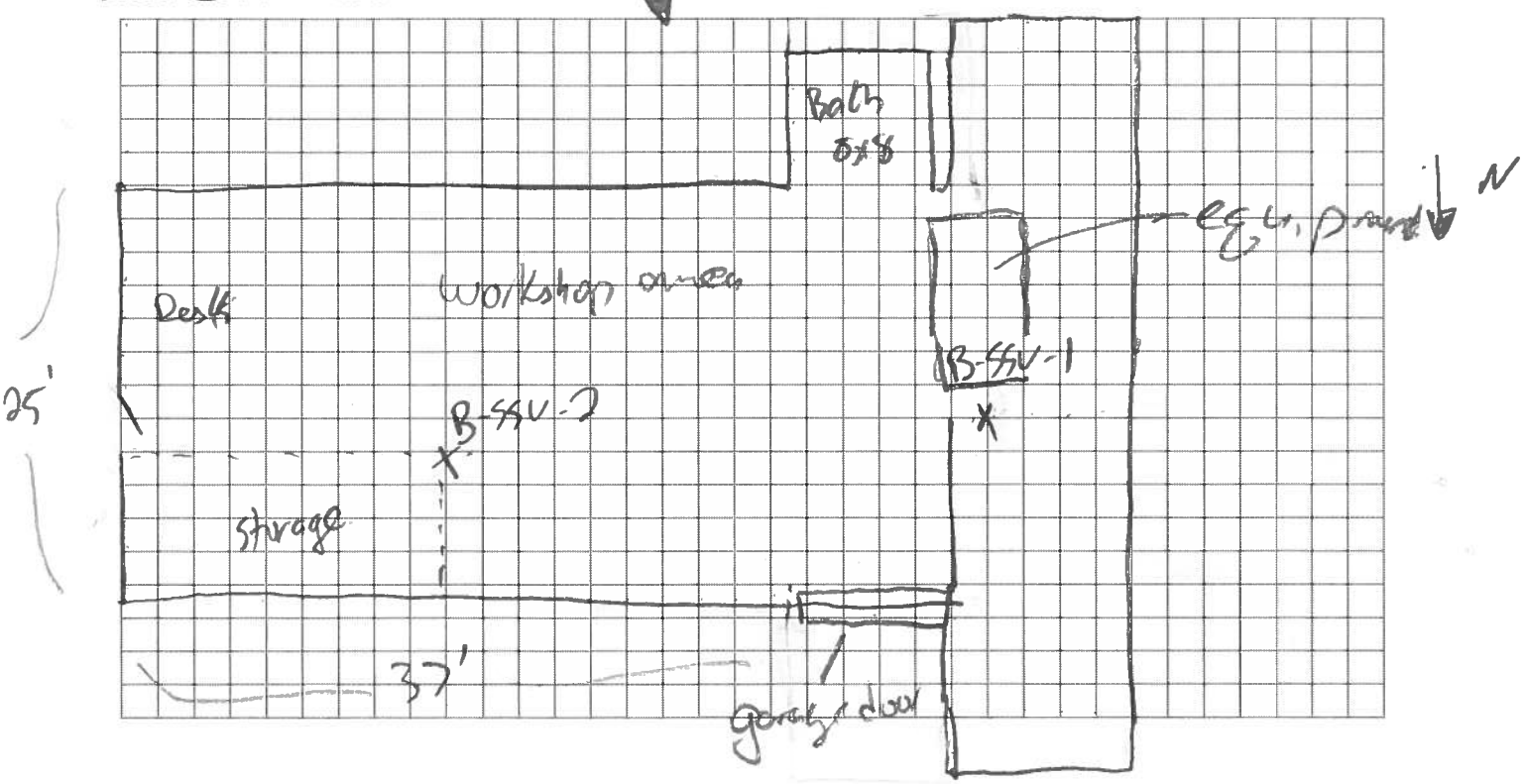
6. Grid plans

Use grid plans to describe floor plans, locate potential soil vapor entry points (e.g., cracks, utility ports, drains); and if applicable, identify sample locations (sub-slab, indoor air, outdoor air sampling).

Floor plan for basement or lowest level:



~~Floor above lowest level:~~



Outdoor grid plot (Include if outdoor ambient air samples collected):

Insert sketch (or attach separate document) of the area outside the building and locate outdoor air sample locations.
If applicable, provide information on spill locations, potential air contamination sources, locations of wells, septic system, etc., and PID meter readings. Indicate wind direction and speed during sampling.

Part 2: Indoor Air Quality Survey

Complete if indoor air sampling is conducted (use grids in Part 1 for labeling sampling locations).

Factors that may influence indoor air quality:

Is there an attached garage:	☐ Yes ☒ No		
Are petroleum-powered machines or vehicles stored in the garage (e.g., lawn mower, ATV, car):	☐ Yes ☒ No	Please specify:	
Has the building ever had a fire:	☐ Yes ☒ No	When:	
Is a kerosene or unvented gas space heater present:	☐ Yes ☒ No	Where & type:	
Is there smoking in the building:	☒ Yes ☐ No	How frequently:	
Have cleaning products been used recently:	☒ Yes ☐ No	When & type:	thinner (Xylol)
Have cosmetic products been used recently:	☐ Yes ☒ No	When & type:	
Has painting/staining been done in the last 6 months:	☒ Yes ☐ No	Where & when:	Priming metal
Has any remodeling or construction occurred in the last 6 months:	☐ Yes ☒ No	Where & when:	
Is there new carpet, drapes, or other textiles:	☐ Yes ☒ No	Where & when:	
Have air fresheners been used recently:	☐ Yes ☒ No	When & type:	

Is there a clothes dryer: ☐ Yes ☒ No If yes, is it vented outside: _____

Are there odors in the building: ☐ Yes ☐ No If yes, please describe: _____

Do any of the building occupants use solvents at work: ☒ Yes ☐ No

If yes, what types of solvents are used: Solvents

Do any of the building occupants regularly use or work at a dry-cleaning service: ☐ Yes ☒ No

If yes, indicate approximately how frequent: _____

Product inventory form (Add additional rows if needed)

Make and model of field instrument used: —

List specific products identified in the building that have the potential to affect indoor air quality:

Location	Product description*	Comments	Instrument readings if taken and units
Main	acetylene		
	propane		
	paint		
	solvents		

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D). Include photographs of product containers as appropriate to document products and ingredients.

Appendix D

Laboratory Analytical Reports

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 07, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Montana Certification IDs

150 N. 9th Street, Billings, MT 59101
Colorado Asbestos #: 17119
A2LA Certification #: 3590.01
EPA Region 8 Certification #: 8TMS-L
Idaho Certification #: MT00012
Minnesota Dept of Health Certification #: 030-999-442
Montana Certification #: MT CERT0040
North Dakota Dept. Of Health #: R-209
NVLAP Certification #: 101292-0
Washington Department of Ecology #: C993

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SAMPLE SUMMARY

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10339856001	**B32-S-77**	Solid	02/22/16 14:45	02/26/16 12:54
10339856002	**B32-S-38**	Solid	02/22/16 15:00	02/26/16 12:54
10339856003	**B32-S-94**	Solid	02/22/16 15:15	02/26/16 12:54
10339856004	**DUP-1**	Solid	02/22/16 15:00	02/26/16 12:54
10339856005	**B29-S-53**	Solid	02/23/16 15:30	02/26/16 12:54
10339856006	**DUP-2**	Solid	02/23/16 15:30	02/26/16 12:54
10339856007	**B29-S-34**	Solid	02/23/16 16:30	02/26/16 12:54
10339856008	**B29-S-80**	Solid	02/23/16 17:00	02/26/16 12:54
10339856009	**B30-S-98**	Solid	02/24/16 11:00	02/26/16 12:54
10339856010	**B30-S-36**	Solid	02/24/16 11:15	02/26/16 12:54
10339856011	**B30-S-45**	Solid	02/24/16 14:45	02/26/16 12:54
10339856012	**TRIP BLANK**	Solid	02/24/16 00:00	02/26/16 12:54

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10339856001	**B32-S-77**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10339856002	**B32-S-38**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10339856003	**B32-S-94**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856004	**DUP-1**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856005	**B29-S-53**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856006	**DUP-2**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856007	**B29-S-34**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856008	**B29-S-80**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856009	**B30-S-98**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856010	**B30-S-36**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10339856011	**B30-S-45**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10339856012	**TRIP BLANK**	EPA 8260B	CD2	70

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SUMMARY OF DETECTION

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10339856001	**B32-S-77**					
ASTM D2974	Percent Moisture	10.7	%	0.10	02/29/16 12:59	
EPA 8260B	cis-1,2-Dichloroethene	65.7	ug/kg	58.1	03/01/16 17:41	
10339856002	**B32-S-38**					
ASTM D2974	Percent Moisture	6.4	%	0.10	02/29/16 12:59	
10339856003	**B32-S-94**					
ASTM D2974	Percent Moisture	8.8	%	0.10	02/29/16 12:59	
10339856004	**DUP-1**					
ASTM D2974	Percent Moisture	8.2	%	0.10	02/29/16 13:00	
10339856005	**B29-S-53**					
ASTM D2974	Percent Moisture	14.4	%	0.10	02/29/16 13:00	
10339856006	**DUP-2**					
ASTM D2974	Percent Moisture	12.0	%	0.10	02/29/16 13:00	
10339856007	**B29-S-34**					
ASTM D2974	Percent Moisture	2.5	%	0.10	02/29/16 13:01	
10339856008	**B29-S-80**					
ASTM D2974	Percent Moisture	8.4	%	0.10	02/29/16 13:02	
EPA 8260B	cis-1,2-Dichloroethene	141	ug/kg	52.5	03/02/16 19:17	
10339856009	**B30-S-98**					
ASTM D2974	Percent Moisture	11.8	%	0.10	02/29/16 13:02	
10339856010	**B30-S-36**					
ASTM D2974	Percent Moisture	2.1	%	0.10	03/01/16 12:13	
10339856011	**B30-S-45**					
ASTM D2974	Percent Moisture	16.3	%	0.10	03/01/16 12:13	

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PROJECT NARRATIVE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 07, 2016

General Information:
12 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- B29-S-34 (Lab ID: 10339856007)
- B29-S-53 (Lab ID: 10339856005)
- B29-S-80 (Lab ID: 10339856008)
- B30-S-36 (Lab ID: 10339856010)
- B30-S-98 (Lab ID: 10339856009)
- DUP-2 (Lab ID: 10339856006)
- TRIP BLANK (Lab ID: 10339856012)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34765

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2201015)
  - Chloroethane
- MS (Lab ID: 2201019)
  - Chloroethane

QC Batch: MSV/34798

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2202977)
  - Dichlorofluoromethane
- MS (Lab ID: 2203096)
  - Dichlorofluoromethane
- MSD (Lab ID: 2203097)
  - Dichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 07, 2016

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/34787

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2201934)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34765

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10339856003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2201193)
  - Trichlorofluoromethane

R1: RPD value was outside control limits.

- MSD (Lab ID: 2201193)
  - 1,1,2-Trichlorotrifluoroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - Allyl chloride
  - Diethyl ether (Ethyl ether)
  - Methylene Chloride
  - Trichlorofluoromethane
  - trans-1,2-Dichloroethene

QC Batch: MSV/34766

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/34787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340052011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2201941)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2-Trichlorotrifluoroethane
  - 1,1-Dichloroethane

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PROJECT NARRATIVE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 07, 2016

QC Batch: MSV/34787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340052011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- 1,1-Dichloropropene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 4-Chlorotoluene
- 4-Methyl-2-pentanone (MIBK)
- Allyl chloride
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- Dibromomethane
- Diethyl ether (Ethyl ether)
- Ethylbenzene
- Methyl-tert-butyl ether
- Methylene Chloride
- Styrene
- Tetrachloroethene
- Toluene
- Trichloroethene
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- n-Propylbenzene
- p-Isopropyltoluene
- tert-Butylbenzene
- trans-1,3-Dichloropropene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2201941)

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PROJECT NARRATIVE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 07, 2016

QC Batch: MSV/34787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340052011

R1: RPD value was outside control limits.

- 1,1,1,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1,2-Trichlorotrifluoroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 4-Chlorotoluene
- 4-Methyl-2-pentanone (MIBK)
- Acetone
- Allyl chloride
- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- Dibromomethane
- Diethyl ether (Ethyl ether)
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methyl-tert-butyl ether
- Naphthalene

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PROJECT NARRATIVE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 07, 2016

QC Batch: MSV/34787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340052011

R1: RPD value was outside control limits.

- Styrene
- Tetrachloroethene
- Tetrahydrofuran
- Toluene
- Trichloroethene
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- n-Butylbenzene
- n-Propylbenzene
- p-Isopropyltoluene
- sec-Butylbenzene
- tert-Butylbenzene
- trans-1,2-Dichloroethene

QC Batch: MSV/34798

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340294004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2203097)
  - Dichlorofluoromethane

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-77 **Lab ID: 10339856001** Collected: 02/22/16 14:45 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**10.7**	%	0.10	0.10	1		02/29/16 12:59		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1160	260	1	03/01/16 10:05	03/01/16 17:41	67-64-1	
Allyl chloride	ND	ug/kg	232	14.2	1	03/01/16 10:05	03/01/16 17:41	107-05-1	
Benzene	ND	ug/kg	23.2	12.3	1	03/01/16 10:05	03/01/16 17:41	71-43-2	
Bromobenzene	ND	ug/kg	58.1	14.1	1	03/01/16 10:05	03/01/16 17:41	108-86-1	
Bromochloromethane	ND	ug/kg	58.1	11.1	1	03/01/16 10:05	03/01/16 17:41	74-97-5	
Bromodichloromethane	ND	ug/kg	58.1	10.3	1	03/01/16 10:05	03/01/16 17:41	75-27-4	
Bromoform	ND	ug/kg	581	13.8	1	03/01/16 10:05	03/01/16 17:41	75-25-2	
Bromomethane	ND	ug/kg	581	102	1	03/01/16 10:05	03/01/16 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	291	96.5	1	03/01/16 10:05	03/01/16 17:41	78-93-3	
n-Butylbenzene	ND	ug/kg	58.1	10.9	1	03/01/16 10:05	03/01/16 17:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.1	11.9	1	03/01/16 10:05	03/01/16 17:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.1	15.6	1	03/01/16 10:05	03/01/16 17:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.1	14.1	1	03/01/16 10:05	03/01/16 17:41	56-23-5	
Chlorobenzene	ND	ug/kg	58.1	9.4	1	03/01/16 10:05	03/01/16 17:41	108-90-7	
Chloroethane	ND	ug/kg	581	27.8	1	03/01/16 10:05	03/01/16 17:41	75-00-3	
Chloroform	ND	ug/kg	58.1	9.7	1	03/01/16 10:05	03/01/16 17:41	67-66-3	
Chloromethane	ND	ug/kg	232	11.7	1	03/01/16 10:05	03/01/16 17:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.1	12.0	1	03/01/16 10:05	03/01/16 17:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.1	10.9	1	03/01/16 10:05	03/01/16 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	581	45.0	1	03/01/16 10:05	03/01/16 17:41	96-12-8	
Dibromochloromethane	ND	ug/kg	58.1	9.0	1	03/01/16 10:05	03/01/16 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.1	9.8	1	03/01/16 10:05	03/01/16 17:41	106-93-4	
Dibromomethane	ND	ug/kg	58.1	13.7	1	03/01/16 10:05	03/01/16 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.1	14.1	1	03/01/16 10:05	03/01/16 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.1	14.2	1	03/01/16 10:05	03/01/16 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.1	12.3	1	03/01/16 10:05	03/01/16 17:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	232	14.3	1	03/01/16 10:05	03/01/16 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.1	11.1	1	03/01/16 10:05	03/01/16 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.1	13.0	1	03/01/16 10:05	03/01/16 17:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.1	13.2	1	03/01/16 10:05	03/01/16 17:41	75-35-4	
cis-1,2-Dichloroethene	**65.7**	ug/kg	58.1	20.7	1	03/01/16 10:05	03/01/16 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.1	9.5	1	03/01/16 10:05	03/01/16 17:41	156-60-5	
Dichlorofluoromethane	ND	ug/kg	581	54.6	1	03/01/16 10:05	03/01/16 17:41	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.1	11.9	1	03/01/16 10:05	03/01/16 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.1	9.1	1	03/01/16 10:05	03/01/16 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	232	23.5	1	03/01/16 10:05	03/01/16 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.1	11.6	1	03/01/16 10:05	03/01/16 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.1	6.0	1	03/01/16 10:05	03/01/16 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.1	22.5	1	03/01/16 10:05	03/01/16 17:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	232	18.9	1	03/01/16 10:05	03/01/16 17:41	60-29-7	
Ethylbenzene	ND	ug/kg	58.1	9.3	1	03/01/16 10:05	03/01/16 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	291	24.8	1	03/01/16 10:05	03/01/16 17:41	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-77 **Lab ID: 10339856001** Collected: 02/22/16 14:45 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.1	10.6	1	03/01/16 10:05	03/01/16 17:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.1	10.1	1	03/01/16 10:05	03/01/16 17:41	99-87-6	
Methylene Chloride	ND	ug/kg	232	17.3	1	03/01/16 10:05	03/01/16 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	291	73.9	1	03/01/16 10:05	03/01/16 17:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.1	15.7	1	03/01/16 10:05	03/01/16 17:41	1634-04-4	
Naphthalene	ND	ug/kg	232	83.8	1	03/01/16 10:05	03/01/16 17:41	91-20-3	
n-Propylbenzene	ND	ug/kg	58.1	14.6	1	03/01/16 10:05	03/01/16 17:41	103-65-1	
Styrene	ND	ug/kg	58.1	9.2	1	03/01/16 10:05	03/01/16 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.1	11.2	1	03/01/16 10:05	03/01/16 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.1	11.1	1	03/01/16 10:05	03/01/16 17:41	79-34-5	
Tetrachloroethene	ND	ug/kg	58.1	12.0	1	03/01/16 10:05	03/01/16 17:41	127-18-4	
Tetrahydrofuran	ND	ug/kg	2320	91.9	1	03/01/16 10:05	03/01/16 17:41	109-99-9	
Toluene	ND	ug/kg	58.1	11.1	1	03/01/16 10:05	03/01/16 17:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.1	22.5	1	03/01/16 10:05	03/01/16 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.1	10.6	1	03/01/16 10:05	03/01/16 17:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.1	11.3	1	03/01/16 10:05	03/01/16 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.1	15.9	1	03/01/16 10:05	03/01/16 17:41	79-00-5	
Trichloroethene	ND	ug/kg	58.1	14.1	1	03/01/16 10:05	03/01/16 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	232	40.2	1	03/01/16 10:05	03/01/16 17:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	232	16.0	1	03/01/16 10:05	03/01/16 17:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	232	13.7	1	03/01/16 10:05	03/01/16 17:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.1	11.6	1	03/01/16 10:05	03/01/16 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.1	13.0	1	03/01/16 10:05	03/01/16 17:41	108-67-8	
Vinyl chloride	ND	ug/kg	58.1	10.4	1	03/01/16 10:05	03/01/16 17:41	75-01-4	
Xylene (Total)	ND	ug/kg	174	34.8	1	03/01/16 10:05	03/01/16 17:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-129		1	03/01/16 10:05	03/01/16 17:41	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/01/16 10:05	03/01/16 17:41	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/01/16 10:05	03/01/16 17:41	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-38 **Lab ID: 10339856002** Collected: 02/22/16 15:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**6.4**	%	0.10	0.10	1		02/29/16 12:59		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1100	246	1	03/01/16 10:05	03/01/16 17:59	67-64-1	
Allyl chloride	ND	ug/kg	219	13.4	1	03/01/16 10:05	03/01/16 17:59	107-05-1	
Benzene	ND	ug/kg	21.9	11.6	1	03/01/16 10:05	03/01/16 17:59	71-43-2	
Bromobenzene	ND	ug/kg	54.9	13.3	1	03/01/16 10:05	03/01/16 17:59	108-86-1	
Bromochloromethane	ND	ug/kg	54.9	10.5	1	03/01/16 10:05	03/01/16 17:59	74-97-5	
Bromodichloromethane	ND	ug/kg	54.9	9.8	1	03/01/16 10:05	03/01/16 17:59	75-27-4	
Bromoform	ND	ug/kg	549	13.1	1	03/01/16 10:05	03/01/16 17:59	75-25-2	
Bromomethane	ND	ug/kg	549	96.3	1	03/01/16 10:05	03/01/16 17:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	274	91.1	1	03/01/16 10:05	03/01/16 17:59	78-93-3	
n-Butylbenzene	ND	ug/kg	54.9	10.3	1	03/01/16 10:05	03/01/16 17:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.9	11.2	1	03/01/16 10:05	03/01/16 17:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.9	14.7	1	03/01/16 10:05	03/01/16 17:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.9	13.3	1	03/01/16 10:05	03/01/16 17:59	56-23-5	
Chlorobenzene	ND	ug/kg	54.9	8.9	1	03/01/16 10:05	03/01/16 17:59	108-90-7	
Chloroethane	ND	ug/kg	549	26.2	1	03/01/16 10:05	03/01/16 17:59	75-00-3	
Chloroform	ND	ug/kg	54.9	9.2	1	03/01/16 10:05	03/01/16 17:59	67-66-3	
Chloromethane	ND	ug/kg	219	11.1	1	03/01/16 10:05	03/01/16 17:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.9	11.3	1	03/01/16 10:05	03/01/16 17:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.9	10.3	1	03/01/16 10:05	03/01/16 17:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	549	42.5	1	03/01/16 10:05	03/01/16 17:59	96-12-8	
Dibromochloromethane	ND	ug/kg	54.9	8.5	1	03/01/16 10:05	03/01/16 17:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.9	9.3	1	03/01/16 10:05	03/01/16 17:59	106-93-4	
Dibromomethane	ND	ug/kg	54.9	12.9	1	03/01/16 10:05	03/01/16 17:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.9	13.3	1	03/01/16 10:05	03/01/16 17:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.9	13.4	1	03/01/16 10:05	03/01/16 17:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.9	11.6	1	03/01/16 10:05	03/01/16 17:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	219	13.5	1	03/01/16 10:05	03/01/16 17:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.9	10.5	1	03/01/16 10:05	03/01/16 17:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.9	12.3	1	03/01/16 10:05	03/01/16 17:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.9	12.5	1	03/01/16 10:05	03/01/16 17:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.9	19.5	1	03/01/16 10:05	03/01/16 17:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.9	9.0	1	03/01/16 10:05	03/01/16 17:59	156-60-5	
Dichlorofluoromethane	ND	ug/kg	549	51.6	1	03/01/16 10:05	03/01/16 17:59	75-43-4	
1,2-Dichloropropane	ND	ug/kg	54.9	11.2	1	03/01/16 10:05	03/01/16 17:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.9	8.6	1	03/01/16 10:05	03/01/16 17:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	219	22.2	1	03/01/16 10:05	03/01/16 17:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.9	11.0	1	03/01/16 10:05	03/01/16 17:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.9	5.7	1	03/01/16 10:05	03/01/16 17:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.9	21.3	1	03/01/16 10:05	03/01/16 17:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	219	17.9	1	03/01/16 10:05	03/01/16 17:59	60-29-7	
Ethylbenzene	ND	ug/kg	54.9	8.8	1	03/01/16 10:05	03/01/16 17:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	274	23.4	1	03/01/16 10:05	03/01/16 17:59	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-38 **Lab ID: 10339856002** Collected: 02/22/16 15:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.9	10	1	03/01/16 10:05	03/01/16 17:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.9	9.6	1	03/01/16 10:05	03/01/16 17:59	99-87-6	
Methylene Chloride	ND	ug/kg	219	16.3	1	03/01/16 10:05	03/01/16 17:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	274	69.8	1	03/01/16 10:05	03/01/16 17:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.9	14.8	1	03/01/16 10:05	03/01/16 17:59	1634-04-4	
Naphthalene	ND	ug/kg	219	79.1	1	03/01/16 10:05	03/01/16 17:59	91-20-3	
n-Propylbenzene	ND	ug/kg	54.9	13.8	1	03/01/16 10:05	03/01/16 17:59	103-65-1	
Styrene	ND	ug/kg	54.9	8.7	1	03/01/16 10:05	03/01/16 17:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.9	10.5	1	03/01/16 10:05	03/01/16 17:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.9	10.5	1	03/01/16 10:05	03/01/16 17:59	79-34-5	
Tetrachloroethene	ND	ug/kg	54.9	11.3	1	03/01/16 10:05	03/01/16 17:59	127-18-4	
Tetrahydrofuran	ND	ug/kg	2190	86.8	1	03/01/16 10:05	03/01/16 17:59	109-99-9	
Toluene	ND	ug/kg	54.9	10.5	1	03/01/16 10:05	03/01/16 17:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.9	21.3	1	03/01/16 10:05	03/01/16 17:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.9	10	1	03/01/16 10:05	03/01/16 17:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.9	10.7	1	03/01/16 10:05	03/01/16 17:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.9	15.0	1	03/01/16 10:05	03/01/16 17:59	79-00-5	
Trichloroethene	ND	ug/kg	54.9	13.3	1	03/01/16 10:05	03/01/16 17:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	219	38.0	1	03/01/16 10:05	03/01/16 17:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	219	15.1	1	03/01/16 10:05	03/01/16 17:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	219	12.9	1	03/01/16 10:05	03/01/16 17:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.9	11.0	1	03/01/16 10:05	03/01/16 17:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.9	12.3	1	03/01/16 10:05	03/01/16 17:59	108-67-8	
Vinyl chloride	ND	ug/kg	54.9	9.9	1	03/01/16 10:05	03/01/16 17:59	75-01-4	
Xylene (Total)	ND	ug/kg	165	32.8	1	03/01/16 10:05	03/01/16 17:59	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-129		1	03/01/16 10:05	03/01/16 17:59	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/01/16 10:05	03/01/16 17:59	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/01/16 10:05	03/01/16 17:59	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-94 **Lab ID: 10339856003** Collected: 02/22/16 15:15 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**8.8**	%	0.10	0.10	1		02/29/16 12:59		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1060	238	1	03/01/16 11:54	03/01/16 15:49	67-64-1	
Allyl chloride	ND	ug/kg	212	12.9	1	03/01/16 11:54	03/01/16 15:49	107-05-1	R1
Benzene	ND	ug/kg	53.0	7.4	1	03/01/16 11:54	03/01/16 15:49	71-43-2	
Bromobenzene	ND	ug/kg	53.0	12.8	1	03/01/16 11:54	03/01/16 15:49	108-86-1	
Bromochloromethane	ND	ug/kg	53.0	10.2	1	03/01/16 11:54	03/01/16 15:49	74-97-5	
Bromodichloromethane	ND	ug/kg	53.0	9.4	1	03/01/16 11:54	03/01/16 15:49	75-27-4	
Bromoform	ND	ug/kg	530	12.6	1	03/01/16 11:54	03/01/16 15:49	75-25-2	
Bromomethane	ND	ug/kg	530	93.2	1	03/01/16 11:54	03/01/16 15:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	265	88.1	1	03/01/16 11:54	03/01/16 15:49	78-93-3	
n-Butylbenzene	ND	ug/kg	53.0	10	1	03/01/16 11:54	03/01/16 15:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.0	10.8	1	03/01/16 11:54	03/01/16 15:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.0	14.2	1	03/01/16 11:54	03/01/16 15:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.0	12.8	1	03/01/16 11:54	03/01/16 15:49	56-23-5	
Chlorobenzene	ND	ug/kg	53.0	8.6	1	03/01/16 11:54	03/01/16 15:49	108-90-7	
Chloroethane	ND	ug/kg	530	25.4	1	03/01/16 11:54	03/01/16 15:49	75-00-3	
Chloroform	ND	ug/kg	53.0	8.9	1	03/01/16 11:54	03/01/16 15:49	67-66-3	
Chloromethane	ND	ug/kg	212	10.7	1	03/01/16 11:54	03/01/16 15:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.0	10.9	1	03/01/16 11:54	03/01/16 15:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.0	10	1	03/01/16 11:54	03/01/16 15:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	530	41.1	1	03/01/16 11:54	03/01/16 15:49	96-12-8	
Dibromochloromethane	ND	ug/kg	212	8.2	1	03/01/16 11:54	03/01/16 15:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.0	8.5	1	03/01/16 11:54	03/01/16 15:49	106-93-4	
Dibromomethane	ND	ug/kg	53.0	12.5	1	03/01/16 11:54	03/01/16 15:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.0	12.8	1	03/01/16 11:54	03/01/16 15:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.0	12.9	1	03/01/16 11:54	03/01/16 15:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.0	11.2	1	03/01/16 11:54	03/01/16 15:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	212	13.0	1	03/01/16 11:54	03/01/16 15:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.0	10.1	1	03/01/16 11:54	03/01/16 15:49	75-34-3	R1
1,2-Dichloroethane	ND	ug/kg	53.0	11.9	1	03/01/16 11:54	03/01/16 15:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.0	12.1	1	03/01/16 11:54	03/01/16 15:49	75-35-4	R1
cis-1,2-Dichloroethene	ND	ug/kg	53.0	18.9	1	03/01/16 11:54	03/01/16 15:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.0	8.7	1	03/01/16 11:54	03/01/16 15:49	156-60-5	R1
Dichlorofluoromethane	ND	ug/kg	530	49.9	1	03/01/16 11:54	03/01/16 15:49	75-43-4	
1,2-Dichloropropane	ND	ug/kg	53.0	10.8	1	03/01/16 11:54	03/01/16 15:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.0	8.3	1	03/01/16 11:54	03/01/16 15:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	212	21.4	1	03/01/16 11:54	03/01/16 15:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.0	10.6	1	03/01/16 11:54	03/01/16 15:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.0	5.5	1	03/01/16 11:54	03/01/16 15:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	530	20.6	1	03/01/16 11:54	03/01/16 15:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	212	17.3	1	03/01/16 11:54	03/01/16 15:49	60-29-7	R1
Ethylbenzene	ND	ug/kg	53.0	7.9	1	03/01/16 11:54	03/01/16 15:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	265	22.6	1	03/01/16 11:54	03/01/16 15:49	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B32-S-94 **Lab ID: 10339856003** Collected: 02/22/16 15:15 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	53.0	9.6	1	03/01/16 11:54	03/01/16 15:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.0	9.3	1	03/01/16 11:54	03/01/16 15:49	99-87-6	
Methylene Chloride	ND	ug/kg	530	15.8	1	03/01/16 11:54	03/01/16 15:49	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	265	67.5	1	03/01/16 11:54	03/01/16 15:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.0	9.9	1	03/01/16 11:54	03/01/16 15:49	1634-04-4	
Naphthalene	ND	ug/kg	212	76.5	1	03/01/16 11:54	03/01/16 15:49	91-20-3	
n-Propylbenzene	ND	ug/kg	53.0	11.4	1	03/01/16 11:54	03/01/16 15:49	103-65-1	
Styrene	ND	ug/kg	53.0	8.4	1	03/01/16 11:54	03/01/16 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.0	10.2	1	03/01/16 11:54	03/01/16 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.0	10.2	1	03/01/16 11:54	03/01/16 15:49	79-34-5	
Tetrachloroethene	ND	ug/kg	53.0	10.9	1	03/01/16 11:54	03/01/16 15:49	127-18-4	
Tetrahydrofuran	ND	ug/kg	2120	83.9	1	03/01/16 11:54	03/01/16 15:49	109-99-9	
Toluene	ND	ug/kg	53.0	10.2	1	03/01/16 11:54	03/01/16 15:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.0	20.6	1	03/01/16 11:54	03/01/16 15:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.0	9.7	1	03/01/16 11:54	03/01/16 15:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	53.0	10.3	1	03/01/16 11:54	03/01/16 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.0	14.5	1	03/01/16 11:54	03/01/16 15:49	79-00-5	
Trichloroethene	ND	ug/kg	53.0	12.8	1	03/01/16 11:54	03/01/16 15:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	212	36.7	1	03/01/16 11:54	03/01/16 15:49	75-69-4	M1,R1
1,2,3-Trichloropropane	ND	ug/kg	212	14.6	1	03/01/16 11:54	03/01/16 15:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	212	12.5	1	03/01/16 11:54	03/01/16 15:49	76-13-1	R1
1,2,4-Trimethylbenzene	ND	ug/kg	53.0	10.6	1	03/01/16 11:54	03/01/16 15:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.0	10.3	1	03/01/16 11:54	03/01/16 15:49	108-67-8	
Vinyl chloride	ND	ug/kg	21.2	9.5	1	03/01/16 11:54	03/01/16 15:49	75-01-4	
Xylene (Total)	ND	ug/kg	159	31.7	1	03/01/16 11:54	03/01/16 15:49	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/01/16 11:54	03/01/16 15:49	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/01/16 11:54	03/01/16 15:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/01/16 11:54	03/01/16 15:49	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: DUP-1 **Lab ID: 10339856004** Collected: 02/22/16 15:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**8.2**	%	0.10	0.10	1		02/29/16 13:00		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1110	248	1	03/01/16 11:54	03/01/16 16:38	67-64-1	
Allyl chloride	ND	ug/kg	221	13.5	1	03/01/16 11:54	03/01/16 16:38	107-05-1	
Benzene	ND	ug/kg	55.3	7.7	1	03/01/16 11:54	03/01/16 16:38	71-43-2	
Bromobenzene	ND	ug/kg	55.3	13.4	1	03/01/16 11:54	03/01/16 16:38	108-86-1	
Bromochloromethane	ND	ug/kg	55.3	10.6	1	03/01/16 11:54	03/01/16 16:38	74-97-5	
Bromodichloromethane	ND	ug/kg	55.3	9.8	1	03/01/16 11:54	03/01/16 16:38	75-27-4	
Bromoform	ND	ug/kg	553	13.2	1	03/01/16 11:54	03/01/16 16:38	75-25-2	
Bromomethane	ND	ug/kg	553	97.1	1	03/01/16 11:54	03/01/16 16:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	277	91.8	1	03/01/16 11:54	03/01/16 16:38	78-93-3	
n-Butylbenzene	ND	ug/kg	55.3	10.4	1	03/01/16 11:54	03/01/16 16:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.3	11.3	1	03/01/16 11:54	03/01/16 16:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.3	14.8	1	03/01/16 11:54	03/01/16 16:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.3	13.4	1	03/01/16 11:54	03/01/16 16:38	56-23-5	
Chlorobenzene	ND	ug/kg	55.3	9.0	1	03/01/16 11:54	03/01/16 16:38	108-90-7	
Chloroethane	ND	ug/kg	553	26.4	1	03/01/16 11:54	03/01/16 16:38	75-00-3	
Chloroform	ND	ug/kg	55.3	9.3	1	03/01/16 11:54	03/01/16 16:38	67-66-3	
Chloromethane	ND	ug/kg	221	11.2	1	03/01/16 11:54	03/01/16 16:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.3	11.4	1	03/01/16 11:54	03/01/16 16:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.3	10.4	1	03/01/16 11:54	03/01/16 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	553	42.8	1	03/01/16 11:54	03/01/16 16:38	96-12-8	
Dibromochloromethane	ND	ug/kg	221	8.6	1	03/01/16 11:54	03/01/16 16:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.3	8.9	1	03/01/16 11:54	03/01/16 16:38	106-93-4	
Dibromomethane	ND	ug/kg	55.3	13.1	1	03/01/16 11:54	03/01/16 16:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.3	13.4	1	03/01/16 11:54	03/01/16 16:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.3	13.5	1	03/01/16 11:54	03/01/16 16:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.3	11.7	1	03/01/16 11:54	03/01/16 16:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	221	13.6	1	03/01/16 11:54	03/01/16 16:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.3	10.6	1	03/01/16 11:54	03/01/16 16:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.3	12.4	1	03/01/16 11:54	03/01/16 16:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.3	12.6	1	03/01/16 11:54	03/01/16 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.3	19.7	1	03/01/16 11:54	03/01/16 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.3	9.1	1	03/01/16 11:54	03/01/16 16:38	156-60-5	
Dichlorofluoromethane	ND	ug/kg	553	52.0	1	03/01/16 11:54	03/01/16 16:38	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.3	11.3	1	03/01/16 11:54	03/01/16 16:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.3	8.7	1	03/01/16 11:54	03/01/16 16:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	221	22.3	1	03/01/16 11:54	03/01/16 16:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.3	11.1	1	03/01/16 11:54	03/01/16 16:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.3	5.7	1	03/01/16 11:54	03/01/16 16:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	553	21.5	1	03/01/16 11:54	03/01/16 16:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	221	18.0	1	03/01/16 11:54	03/01/16 16:38	60-29-7	
Ethylbenzene	ND	ug/kg	55.3	8.3	1	03/01/16 11:54	03/01/16 16:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	277	23.6	1	03/01/16 11:54	03/01/16 16:38	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: DUP-1 **Lab ID: 10339856004** Collected: 02/22/16 15:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	55.3	10.1	1	03/01/16 11:54	03/01/16 16:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.3	9.7	1	03/01/16 11:54	03/01/16 16:38	99-87-6	
Methylene Chloride	ND	ug/kg	553	16.5	1	03/01/16 11:54	03/01/16 16:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	277	70.4	1	03/01/16 11:54	03/01/16 16:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.3	10.4	1	03/01/16 11:54	03/01/16 16:38	1634-04-4	
Naphthalene	ND	ug/kg	221	79.8	1	03/01/16 11:54	03/01/16 16:38	91-20-3	
n-Propylbenzene	ND	ug/kg	55.3	11.8	1	03/01/16 11:54	03/01/16 16:38	103-65-1	
Styrene	ND	ug/kg	55.3	8.8	1	03/01/16 11:54	03/01/16 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.3	10.6	1	03/01/16 11:54	03/01/16 16:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.3	10.6	1	03/01/16 11:54	03/01/16 16:38	79-34-5	
Tetrachloroethene	ND	ug/kg	55.3	11.4	1	03/01/16 11:54	03/01/16 16:38	127-18-4	
Tetrahydrofuran	ND	ug/kg	2210	87.5	1	03/01/16 11:54	03/01/16 16:38	109-99-9	
Toluene	ND	ug/kg	55.3	10.6	1	03/01/16 11:54	03/01/16 16:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.3	21.5	1	03/01/16 11:54	03/01/16 16:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.3	10.1	1	03/01/16 11:54	03/01/16 16:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.3	10.8	1	03/01/16 11:54	03/01/16 16:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.3	15.2	1	03/01/16 11:54	03/01/16 16:38	79-00-5	
Trichloroethene	ND	ug/kg	55.3	13.4	1	03/01/16 11:54	03/01/16 16:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	221	38.3	1	03/01/16 11:54	03/01/16 16:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	221	15.3	1	03/01/16 11:54	03/01/16 16:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	221	13.1	1	03/01/16 11:54	03/01/16 16:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.3	11.1	1	03/01/16 11:54	03/01/16 16:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.3	10.7	1	03/01/16 11:54	03/01/16 16:38	108-67-8	
Vinyl chloride	ND	ug/kg	22.1	9.9	1	03/01/16 11:54	03/01/16 16:38	75-01-4	
Xylene (Total)	ND	ug/kg	166	33.1	1	03/01/16 11:54	03/01/16 16:38	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/01/16 11:54	03/01/16 16:38	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/01/16 11:54	03/01/16 16:38	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	03/01/16 11:54	03/01/16 16:38	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-53 **Lab ID: 10339856005** Collected: 02/23/16 15:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.4**	%	0.10	0.10	1		02/29/16 13:00		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	255	1	03/02/16 13:13	03/02/16 18:28	67-64-1	
Allyl chloride	ND	ug/kg	228	13.9	1	03/02/16 13:13	03/02/16 18:28	107-05-1	
Benzene	ND	ug/kg	57.0	8.0	1	03/02/16 13:13	03/02/16 18:28	71-43-2	
Bromobenzene	ND	ug/kg	57.0	13.8	1	03/02/16 13:13	03/02/16 18:28	108-86-1	
Bromochloromethane	ND	ug/kg	57.0	10.9	1	03/02/16 13:13	03/02/16 18:28	74-97-5	
Bromodichloromethane	ND	ug/kg	57.0	10.1	1	03/02/16 13:13	03/02/16 18:28	75-27-4	
Bromoform	ND	ug/kg	570	13.6	1	03/02/16 13:13	03/02/16 18:28	75-25-2	
Bromomethane	ND	ug/kg	570	100	1	03/02/16 13:13	03/02/16 18:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	94.6	1	03/02/16 13:13	03/02/16 18:28	78-93-3	
n-Butylbenzene	ND	ug/kg	57.0	10.7	1	03/02/16 13:13	03/02/16 18:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.0	11.6	1	03/02/16 13:13	03/02/16 18:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.0	15.3	1	03/02/16 13:13	03/02/16 18:28	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.0	13.8	1	03/02/16 13:13	03/02/16 18:28	56-23-5	
Chlorobenzene	ND	ug/kg	57.0	9.2	1	03/02/16 13:13	03/02/16 18:28	108-90-7	
Chloroethane	ND	ug/kg	570	27.2	1	03/02/16 13:13	03/02/16 18:28	75-00-3	
Chloroform	ND	ug/kg	57.0	9.5	1	03/02/16 13:13	03/02/16 18:28	67-66-3	
Chloromethane	ND	ug/kg	228	11.5	1	03/02/16 13:13	03/02/16 18:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.0	11.7	1	03/02/16 13:13	03/02/16 18:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.0	10.7	1	03/02/16 13:13	03/02/16 18:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	570	44.1	1	03/02/16 13:13	03/02/16 18:28	96-12-8	
Dibromochloromethane	ND	ug/kg	228	8.8	1	03/02/16 13:13	03/02/16 18:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.0	9.2	1	03/02/16 13:13	03/02/16 18:28	106-93-4	
Dibromomethane	ND	ug/kg	57.0	13.4	1	03/02/16 13:13	03/02/16 18:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.0	13.8	1	03/02/16 13:13	03/02/16 18:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.0	13.9	1	03/02/16 13:13	03/02/16 18:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.0	12.1	1	03/02/16 13:13	03/02/16 18:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	14.0	1	03/02/16 13:13	03/02/16 18:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.0	10.9	1	03/02/16 13:13	03/02/16 18:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.0	12.8	1	03/02/16 13:13	03/02/16 18:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.0	13.0	1	03/02/16 13:13	03/02/16 18:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.0	20.3	1	03/02/16 13:13	03/02/16 18:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.0	9.4	1	03/02/16 13:13	03/02/16 18:28	156-60-5	
Dichlorofluoromethane	ND	ug/kg	570	53.6	1	03/02/16 13:13	03/02/16 18:28	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.0	11.6	1	03/02/16 13:13	03/02/16 18:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.0	8.9	1	03/02/16 13:13	03/02/16 18:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	23.0	1	03/02/16 13:13	03/02/16 18:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.0	11.4	1	03/02/16 13:13	03/02/16 18:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.0	5.9	1	03/02/16 13:13	03/02/16 18:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	570	22.1	1	03/02/16 13:13	03/02/16 18:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	18.6	1	03/02/16 13:13	03/02/16 18:28	60-29-7	
Ethylbenzene	ND	ug/kg	57.0	8.5	1	03/02/16 13:13	03/02/16 18:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	24.3	1	03/02/16 13:13	03/02/16 18:28	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-53 **Lab ID: 10339856005** Collected: 02/23/16 15:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.0	10.4	1	03/02/16 13:13	03/02/16 18:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.0	10	1	03/02/16 13:13	03/02/16 18:28	99-87-6	
Methylene Chloride	ND	ug/kg	570	17.0	1	03/02/16 13:13	03/02/16 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	72.5	1	03/02/16 13:13	03/02/16 18:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.0	10.7	1	03/02/16 13:13	03/02/16 18:28	1634-04-4	
Naphthalene	ND	ug/kg	228	82.2	1	03/02/16 13:13	03/02/16 18:28	91-20-3	
n-Propylbenzene	ND	ug/kg	57.0	12.2	1	03/02/16 13:13	03/02/16 18:28	103-65-1	
Styrene	ND	ug/kg	57.0	9.0	1	03/02/16 13:13	03/02/16 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.0	11.0	1	03/02/16 13:13	03/02/16 18:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.0	10.9	1	03/02/16 13:13	03/02/16 18:28	79-34-5	L2
Tetrachloroethene	ND	ug/kg	57.0	11.7	1	03/02/16 13:13	03/02/16 18:28	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	90.2	1	03/02/16 13:13	03/02/16 18:28	109-99-9	
Toluene	ND	ug/kg	57.0	10.9	1	03/02/16 13:13	03/02/16 18:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.0	22.1	1	03/02/16 13:13	03/02/16 18:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.0	10.4	1	03/02/16 13:13	03/02/16 18:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.0	11.1	1	03/02/16 13:13	03/02/16 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.0	15.6	1	03/02/16 13:13	03/02/16 18:28	79-00-5	
Trichloroethene	ND	ug/kg	57.0	13.8	1	03/02/16 13:13	03/02/16 18:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	39.4	1	03/02/16 13:13	03/02/16 18:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	15.7	1	03/02/16 13:13	03/02/16 18:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	13.4	1	03/02/16 13:13	03/02/16 18:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.0	11.4	1	03/02/16 13:13	03/02/16 18:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.0	11.0	1	03/02/16 13:13	03/02/16 18:28	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	10.2	1	03/02/16 13:13	03/02/16 18:28	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.1	1	03/02/16 13:13	03/02/16 18:28	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/02/16 13:13	03/02/16 18:28	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/02/16 13:13	03/02/16 18:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/02/16 13:13	03/02/16 18:28	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: DUP-2 **Lab ID: 10339856006** Collected: 02/23/16 15:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.0**	%	0.10	0.10	1		02/29/16 13:00		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	265	1	03/02/16 13:13	03/02/16 18:45	67-64-1	
Allyl chloride	ND	ug/kg	236	14.4	1	03/02/16 13:13	03/02/16 18:45	107-05-1	
Benzene	ND	ug/kg	59.0	8.3	1	03/02/16 13:13	03/02/16 18:45	71-43-2	
Bromobenzene	ND	ug/kg	59.0	14.3	1	03/02/16 13:13	03/02/16 18:45	108-86-1	
Bromochloromethane	ND	ug/kg	59.0	11.3	1	03/02/16 13:13	03/02/16 18:45	74-97-5	
Bromodichloromethane	ND	ug/kg	59.0	10.5	1	03/02/16 13:13	03/02/16 18:45	75-27-4	
Bromoform	ND	ug/kg	590	14.1	1	03/02/16 13:13	03/02/16 18:45	75-25-2	
Bromomethane	ND	ug/kg	590	104	1	03/02/16 13:13	03/02/16 18:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	295	98.0	1	03/02/16 13:13	03/02/16 18:45	78-93-3	
n-Butylbenzene	ND	ug/kg	59.0	11.1	1	03/02/16 13:13	03/02/16 18:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.0	12.0	1	03/02/16 13:13	03/02/16 18:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.0	15.8	1	03/02/16 13:13	03/02/16 18:45	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.0	14.3	1	03/02/16 13:13	03/02/16 18:45	56-23-5	
Chlorobenzene	ND	ug/kg	59.0	9.6	1	03/02/16 13:13	03/02/16 18:45	108-90-7	
Chloroethane	ND	ug/kg	590	28.2	1	03/02/16 13:13	03/02/16 18:45	75-00-3	
Chloroform	ND	ug/kg	59.0	9.9	1	03/02/16 13:13	03/02/16 18:45	67-66-3	
Chloromethane	ND	ug/kg	236	11.9	1	03/02/16 13:13	03/02/16 18:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.0	12.2	1	03/02/16 13:13	03/02/16 18:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.0	11.1	1	03/02/16 13:13	03/02/16 18:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	590	45.7	1	03/02/16 13:13	03/02/16 18:45	96-12-8	
Dibromochloromethane	ND	ug/kg	236	9.1	1	03/02/16 13:13	03/02/16 18:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.0	9.5	1	03/02/16 13:13	03/02/16 18:45	106-93-4	
Dibromomethane	ND	ug/kg	59.0	13.9	1	03/02/16 13:13	03/02/16 18:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.0	14.3	1	03/02/16 13:13	03/02/16 18:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.0	14.4	1	03/02/16 13:13	03/02/16 18:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.0	12.5	1	03/02/16 13:13	03/02/16 18:45	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	236	14.5	1	03/02/16 13:13	03/02/16 18:45	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.0	11.3	1	03/02/16 13:13	03/02/16 18:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.0	13.2	1	03/02/16 13:13	03/02/16 18:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.0	13.5	1	03/02/16 13:13	03/02/16 18:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.0	21.0	1	03/02/16 13:13	03/02/16 18:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.0	9.7	1	03/02/16 13:13	03/02/16 18:45	156-60-5	
Dichlorofluoromethane	ND	ug/kg	590	55.5	1	03/02/16 13:13	03/02/16 18:45	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.0	12.0	1	03/02/16 13:13	03/02/16 18:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.0	9.2	1	03/02/16 13:13	03/02/16 18:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	236	23.9	1	03/02/16 13:13	03/02/16 18:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.0	11.8	1	03/02/16 13:13	03/02/16 18:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.0	6.1	1	03/02/16 13:13	03/02/16 18:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	590	22.9	1	03/02/16 13:13	03/02/16 18:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	236	19.2	1	03/02/16 13:13	03/02/16 18:45	60-29-7	
Ethylbenzene	ND	ug/kg	59.0	8.8	1	03/02/16 13:13	03/02/16 18:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	295	25.2	1	03/02/16 13:13	03/02/16 18:45	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: DUP-2 **Lab ID: 10339856006** Collected: 02/23/16 15:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.0	10.7	1	03/02/16 13:13	03/02/16 18:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.0	10.3	1	03/02/16 13:13	03/02/16 18:45	99-87-6	
Methylene Chloride	ND	ug/kg	590	17.6	1	03/02/16 13:13	03/02/16 18:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	295	75.1	1	03/02/16 13:13	03/02/16 18:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.0	11.1	1	03/02/16 13:13	03/02/16 18:45	1634-04-4	
Naphthalene	ND	ug/kg	236	85.1	1	03/02/16 13:13	03/02/16 18:45	91-20-3	
n-Propylbenzene	ND	ug/kg	59.0	12.6	1	03/02/16 13:13	03/02/16 18:45	103-65-1	
Styrene	ND	ug/kg	59.0	9.4	1	03/02/16 13:13	03/02/16 18:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.0	11.3	1	03/02/16 13:13	03/02/16 18:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.0	11.3	1	03/02/16 13:13	03/02/16 18:45	79-34-5	L2
Tetrachloroethene	ND	ug/kg	59.0	12.2	1	03/02/16 13:13	03/02/16 18:45	127-18-4	
Tetrahydrofuran	ND	ug/kg	2360	93.4	1	03/02/16 13:13	03/02/16 18:45	109-99-9	
Toluene	ND	ug/kg	59.0	11.3	1	03/02/16 13:13	03/02/16 18:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.0	22.9	1	03/02/16 13:13	03/02/16 18:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.0	10.7	1	03/02/16 13:13	03/02/16 18:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.0	11.5	1	03/02/16 13:13	03/02/16 18:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.0	16.2	1	03/02/16 13:13	03/02/16 18:45	79-00-5	
Trichloroethene	ND	ug/kg	59.0	14.3	1	03/02/16 13:13	03/02/16 18:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	236	40.9	1	03/02/16 13:13	03/02/16 18:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	236	16.3	1	03/02/16 13:13	03/02/16 18:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	236	13.9	1	03/02/16 13:13	03/02/16 18:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.0	11.8	1	03/02/16 13:13	03/02/16 18:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.0	11.4	1	03/02/16 13:13	03/02/16 18:45	108-67-8	
Vinyl chloride	ND	ug/kg	23.6	10.6	1	03/02/16 13:13	03/02/16 18:45	75-01-4	
Xylene (Total)	ND	ug/kg	177	35.3	1	03/02/16 13:13	03/02/16 18:45	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-129		1	03/02/16 13:13	03/02/16 18:45	17060-07-0	
Toluene-d8 (S)	95	%.	75-125		1	03/02/16 13:13	03/02/16 18:45	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/02/16 13:13	03/02/16 18:45	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-34 **Lab ID: 10339856007** Collected: 02/23/16 16:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**2.5**	%	0.10	0.10	1		02/29/16 13:01		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1040	234	1	03/02/16 13:13	03/02/16 19:01	67-64-1	
Allyl chloride	ND	ug/kg	209	12.7	1	03/02/16 13:13	03/02/16 19:01	107-05-1	
Benzene	ND	ug/kg	52.2	7.3	1	03/02/16 13:13	03/02/16 19:01	71-43-2	
Bromobenzene	ND	ug/kg	52.2	12.6	1	03/02/16 13:13	03/02/16 19:01	108-86-1	
Bromochloromethane	ND	ug/kg	52.2	10.0	1	03/02/16 13:13	03/02/16 19:01	74-97-5	
Bromodichloromethane	ND	ug/kg	52.2	9.3	1	03/02/16 13:13	03/02/16 19:01	75-27-4	
Bromoform	ND	ug/kg	522	12.4	1	03/02/16 13:13	03/02/16 19:01	75-25-2	
Bromomethane	ND	ug/kg	522	91.7	1	03/02/16 13:13	03/02/16 19:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	261	86.7	1	03/02/16 13:13	03/02/16 19:01	78-93-3	
n-Butylbenzene	ND	ug/kg	52.2	9.8	1	03/02/16 13:13	03/02/16 19:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.2	10.7	1	03/02/16 13:13	03/02/16 19:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.2	14.0	1	03/02/16 13:13	03/02/16 19:01	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.2	12.6	1	03/02/16 13:13	03/02/16 19:01	56-23-5	
Chlorobenzene	ND	ug/kg	52.2	8.5	1	03/02/16 13:13	03/02/16 19:01	108-90-7	
Chloroethane	ND	ug/kg	522	25.0	1	03/02/16 13:13	03/02/16 19:01	75-00-3	
Chloroform	ND	ug/kg	52.2	8.7	1	03/02/16 13:13	03/02/16 19:01	67-66-3	
Chloromethane	ND	ug/kg	209	10.5	1	03/02/16 13:13	03/02/16 19:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.2	10.8	1	03/02/16 13:13	03/02/16 19:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.2	9.8	1	03/02/16 13:13	03/02/16 19:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	522	40.4	1	03/02/16 13:13	03/02/16 19:01	96-12-8	
Dibromochloromethane	ND	ug/kg	209	8.1	1	03/02/16 13:13	03/02/16 19:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.2	8.4	1	03/02/16 13:13	03/02/16 19:01	106-93-4	
Dibromomethane	ND	ug/kg	52.2	12.3	1	03/02/16 13:13	03/02/16 19:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.2	12.6	1	03/02/16 13:13	03/02/16 19:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.2	12.7	1	03/02/16 13:13	03/02/16 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.2	11.1	1	03/02/16 13:13	03/02/16 19:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	209	12.8	1	03/02/16 13:13	03/02/16 19:01	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.2	10	1	03/02/16 13:13	03/02/16 19:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.2	11.7	1	03/02/16 13:13	03/02/16 19:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.2	11.9	1	03/02/16 13:13	03/02/16 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.2	18.6	1	03/02/16 13:13	03/02/16 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.2	8.6	1	03/02/16 13:13	03/02/16 19:01	156-60-5	
Dichlorofluoromethane	ND	ug/kg	522	49.1	1	03/02/16 13:13	03/02/16 19:01	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.2	10.7	1	03/02/16 13:13	03/02/16 19:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.2	8.2	1	03/02/16 13:13	03/02/16 19:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	209	21.1	1	03/02/16 13:13	03/02/16 19:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.2	10.4	1	03/02/16 13:13	03/02/16 19:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.2	5.4	1	03/02/16 13:13	03/02/16 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	522	20.3	1	03/02/16 13:13	03/02/16 19:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	209	17.0	1	03/02/16 13:13	03/02/16 19:01	60-29-7	
Ethylbenzene	ND	ug/kg	52.2	7.8	1	03/02/16 13:13	03/02/16 19:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	261	22.2	1	03/02/16 13:13	03/02/16 19:01	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-34 **Lab ID: 10339856007** Collected: 02/23/16 16:30 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.2	9.5	1	03/02/16 13:13	03/02/16 19:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.2	9.1	1	03/02/16 13:13	03/02/16 19:01	99-87-6	
Methylene Chloride	ND	ug/kg	522	15.6	1	03/02/16 13:13	03/02/16 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	261	66.4	1	03/02/16 13:13	03/02/16 19:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.2	9.8	1	03/02/16 13:13	03/02/16 19:01	1634-04-4	
Naphthalene	ND	ug/kg	209	75.3	1	03/02/16 13:13	03/02/16 19:01	91-20-3	
n-Propylbenzene	ND	ug/kg	52.2	11.2	1	03/02/16 13:13	03/02/16 19:01	103-65-1	
Styrene	ND	ug/kg	52.2	8.3	1	03/02/16 13:13	03/02/16 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.2	10.0	1	03/02/16 13:13	03/02/16 19:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.2	10	1	03/02/16 13:13	03/02/16 19:01	79-34-5	L2
Tetrachloroethene	ND	ug/kg	52.2	10.8	1	03/02/16 13:13	03/02/16 19:01	127-18-4	
Tetrahydrofuran	ND	ug/kg	2090	82.6	1	03/02/16 13:13	03/02/16 19:01	109-99-9	
Toluene	ND	ug/kg	52.2	10.0	1	03/02/16 13:13	03/02/16 19:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.2	20.3	1	03/02/16 13:13	03/02/16 19:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.2	9.5	1	03/02/16 13:13	03/02/16 19:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.2	10.2	1	03/02/16 13:13	03/02/16 19:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.2	14.3	1	03/02/16 13:13	03/02/16 19:01	79-00-5	
Trichloroethene	ND	ug/kg	52.2	12.6	1	03/02/16 13:13	03/02/16 19:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	209	36.1	1	03/02/16 13:13	03/02/16 19:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	209	14.4	1	03/02/16 13:13	03/02/16 19:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	209	12.3	1	03/02/16 13:13	03/02/16 19:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.2	10.4	1	03/02/16 13:13	03/02/16 19:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.2	10.1	1	03/02/16 13:13	03/02/16 19:01	108-67-8	
Vinyl chloride	ND	ug/kg	20.9	9.4	1	03/02/16 13:13	03/02/16 19:01	75-01-4	
Xylene (Total)	ND	ug/kg	157	31.3	1	03/02/16 13:13	03/02/16 19:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-129		1	03/02/16 13:13	03/02/16 19:01	17060-07-0	
Toluene-d8 (S)	95	%.	75-125		1	03/02/16 13:13	03/02/16 19:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	03/02/16 13:13	03/02/16 19:01	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-80 **Lab ID: 10339856008** Collected: 02/23/16 17:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**8.4**	%	0.10	0.10	1		02/29/16 13:02		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1050	235	1	03/02/16 13:13	03/02/16 19:17	67-64-1	
Allyl chloride	ND	ug/kg	210	12.8	1	03/02/16 13:13	03/02/16 19:17	107-05-1	
Benzene	ND	ug/kg	52.5	7.3	1	03/02/16 13:13	03/02/16 19:17	71-43-2	
Bromobenzene	ND	ug/kg	52.5	12.7	1	03/02/16 13:13	03/02/16 19:17	108-86-1	
Bromochloromethane	ND	ug/kg	52.5	10.1	1	03/02/16 13:13	03/02/16 19:17	74-97-5	
Bromodichloromethane	ND	ug/kg	52.5	9.3	1	03/02/16 13:13	03/02/16 19:17	75-27-4	
Bromoform	ND	ug/kg	525	12.5	1	03/02/16 13:13	03/02/16 19:17	75-25-2	
Bromomethane	ND	ug/kg	525	92.2	1	03/02/16 13:13	03/02/16 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	262	87.1	1	03/02/16 13:13	03/02/16 19:17	78-93-3	
n-Butylbenzene	ND	ug/kg	52.5	9.9	1	03/02/16 13:13	03/02/16 19:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.5	10.7	1	03/02/16 13:13	03/02/16 19:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.5	14.1	1	03/02/16 13:13	03/02/16 19:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.5	12.7	1	03/02/16 13:13	03/02/16 19:17	56-23-5	
Chlorobenzene	ND	ug/kg	52.5	8.5	1	03/02/16 13:13	03/02/16 19:17	108-90-7	
Chloroethane	ND	ug/kg	525	25.1	1	03/02/16 13:13	03/02/16 19:17	75-00-3	
Chloroform	ND	ug/kg	52.5	8.8	1	03/02/16 13:13	03/02/16 19:17	67-66-3	
Chloromethane	ND	ug/kg	210	10.6	1	03/02/16 13:13	03/02/16 19:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.5	10.8	1	03/02/16 13:13	03/02/16 19:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.5	9.9	1	03/02/16 13:13	03/02/16 19:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	525	40.6	1	03/02/16 13:13	03/02/16 19:17	96-12-8	
Dibromochloromethane	ND	ug/kg	210	8.1	1	03/02/16 13:13	03/02/16 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.5	8.4	1	03/02/16 13:13	03/02/16 19:17	106-93-4	
Dibromomethane	ND	ug/kg	52.5	12.4	1	03/02/16 13:13	03/02/16 19:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.5	12.7	1	03/02/16 13:13	03/02/16 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.5	12.8	1	03/02/16 13:13	03/02/16 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.5	11.1	1	03/02/16 13:13	03/02/16 19:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	210	12.9	1	03/02/16 13:13	03/02/16 19:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.5	10.0	1	03/02/16 13:13	03/02/16 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.5	11.8	1	03/02/16 13:13	03/02/16 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.5	12.0	1	03/02/16 13:13	03/02/16 19:17	75-35-4	
cis-1,2-Dichloroethene	**141**	ug/kg	52.5	18.7	1	03/02/16 13:13	03/02/16 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.5	8.6	1	03/02/16 13:13	03/02/16 19:17	156-60-5	
Dichlorofluoromethane	ND	ug/kg	525	49.3	1	03/02/16 13:13	03/02/16 19:17	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.5	10.7	1	03/02/16 13:13	03/02/16 19:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.5	8.2	1	03/02/16 13:13	03/02/16 19:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	210	21.2	1	03/02/16 13:13	03/02/16 19:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.5	10.5	1	03/02/16 13:13	03/02/16 19:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.5	5.4	1	03/02/16 13:13	03/02/16 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	525	20.4	1	03/02/16 13:13	03/02/16 19:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	210	17.1	1	03/02/16 13:13	03/02/16 19:17	60-29-7	
Ethylbenzene	ND	ug/kg	52.5	7.9	1	03/02/16 13:13	03/02/16 19:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	262	22.4	1	03/02/16 13:13	03/02/16 19:17	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B29-S-80 **Lab ID: 10339856008** Collected: 02/23/16 17:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.5	9.5	1	03/02/16 13:13	03/02/16 19:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.5	9.2	1	03/02/16 13:13	03/02/16 19:17	99-87-6	
Methylene Chloride	ND	ug/kg	525	15.6	1	03/02/16 13:13	03/02/16 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	262	66.8	1	03/02/16 13:13	03/02/16 19:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.5	9.8	1	03/02/16 13:13	03/02/16 19:17	1634-04-4	
Naphthalene	ND	ug/kg	210	75.7	1	03/02/16 13:13	03/02/16 19:17	91-20-3	
n-Propylbenzene	ND	ug/kg	52.5	11.2	1	03/02/16 13:13	03/02/16 19:17	103-65-1	
Styrene	ND	ug/kg	52.5	8.3	1	03/02/16 13:13	03/02/16 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.5	10.1	1	03/02/16 13:13	03/02/16 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.5	10.0	1	03/02/16 13:13	03/02/16 19:17	79-34-5	L2
Tetrachloroethene	ND	ug/kg	52.5	10.8	1	03/02/16 13:13	03/02/16 19:17	127-18-4	
Tetrahydrofuran	ND	ug/kg	2100	83.0	1	03/02/16 13:13	03/02/16 19:17	109-99-9	
Toluene	ND	ug/kg	52.5	10.1	1	03/02/16 13:13	03/02/16 19:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.5	20.4	1	03/02/16 13:13	03/02/16 19:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.5	9.6	1	03/02/16 13:13	03/02/16 19:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.5	10.2	1	03/02/16 13:13	03/02/16 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.5	14.4	1	03/02/16 13:13	03/02/16 19:17	79-00-5	
Trichloroethene	ND	ug/kg	52.5	12.7	1	03/02/16 13:13	03/02/16 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	210	36.3	1	03/02/16 13:13	03/02/16 19:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	210	14.5	1	03/02/16 13:13	03/02/16 19:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	210	12.4	1	03/02/16 13:13	03/02/16 19:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.5	10.5	1	03/02/16 13:13	03/02/16 19:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.5	10.2	1	03/02/16 13:13	03/02/16 19:17	108-67-8	
Vinyl chloride	ND	ug/kg	21.0	9.4	1	03/02/16 13:13	03/02/16 19:17	75-01-4	
Xylene (Total)	ND	ug/kg	157	31.4	1	03/02/16 13:13	03/02/16 19:17	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-129		1	03/02/16 13:13	03/02/16 19:17	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/02/16 13:13	03/02/16 19:17	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/02/16 13:13	03/02/16 19:17	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-98 **Lab ID: 10339856009** Collected: 02/24/16 11:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**11.8**	%	0.10	0.10	1		02/29/16 13:02		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	261	1	03/02/16 13:13	03/02/16 19:33	67-64-1	
Allyl chloride	ND	ug/kg	233	14.2	1	03/02/16 13:13	03/02/16 19:33	107-05-1	
Benzene	ND	ug/kg	58.3	8.2	1	03/02/16 13:13	03/02/16 19:33	71-43-2	
Bromobenzene	ND	ug/kg	58.3	14.1	1	03/02/16 13:13	03/02/16 19:33	108-86-1	
Bromochloromethane	ND	ug/kg	58.3	11.2	1	03/02/16 13:13	03/02/16 19:33	74-97-5	
Bromodichloromethane	ND	ug/kg	58.3	10.4	1	03/02/16 13:13	03/02/16 19:33	75-27-4	
Bromoform	ND	ug/kg	583	13.9	1	03/02/16 13:13	03/02/16 19:33	75-25-2	
Bromomethane	ND	ug/kg	583	102	1	03/02/16 13:13	03/02/16 19:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	96.9	1	03/02/16 13:13	03/02/16 19:33	78-93-3	
n-Butylbenzene	ND	ug/kg	58.3	11.0	1	03/02/16 13:13	03/02/16 19:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.3	11.9	1	03/02/16 13:13	03/02/16 19:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.3	15.6	1	03/02/16 13:13	03/02/16 19:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.3	14.1	1	03/02/16 13:13	03/02/16 19:33	56-23-5	
Chlorobenzene	ND	ug/kg	58.3	9.5	1	03/02/16 13:13	03/02/16 19:33	108-90-7	
Chloroethane	ND	ug/kg	583	27.9	1	03/02/16 13:13	03/02/16 19:33	75-00-3	
Chloroform	ND	ug/kg	58.3	9.8	1	03/02/16 13:13	03/02/16 19:33	67-66-3	
Chloromethane	ND	ug/kg	233	11.8	1	03/02/16 13:13	03/02/16 19:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.3	12.0	1	03/02/16 13:13	03/02/16 19:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.3	11.0	1	03/02/16 13:13	03/02/16 19:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	583	45.2	1	03/02/16 13:13	03/02/16 19:33	96-12-8	
Dibromochloromethane	ND	ug/kg	233	9.0	1	03/02/16 13:13	03/02/16 19:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.3	9.4	1	03/02/16 13:13	03/02/16 19:33	106-93-4	
Dibromomethane	ND	ug/kg	58.3	13.8	1	03/02/16 13:13	03/02/16 19:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.3	14.1	1	03/02/16 13:13	03/02/16 19:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.3	14.2	1	03/02/16 13:13	03/02/16 19:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.3	12.4	1	03/02/16 13:13	03/02/16 19:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	14.4	1	03/02/16 13:13	03/02/16 19:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.3	11.2	1	03/02/16 13:13	03/02/16 19:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.3	13.1	1	03/02/16 13:13	03/02/16 19:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.3	13.3	1	03/02/16 13:13	03/02/16 19:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.3	20.8	1	03/02/16 13:13	03/02/16 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.3	9.6	1	03/02/16 13:13	03/02/16 19:33	156-60-5	
Dichlorofluoromethane	ND	ug/kg	583	54.8	1	03/02/16 13:13	03/02/16 19:33	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.3	11.9	1	03/02/16 13:13	03/02/16 19:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.3	9.1	1	03/02/16 13:13	03/02/16 19:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	23.6	1	03/02/16 13:13	03/02/16 19:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.3	11.7	1	03/02/16 13:13	03/02/16 19:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.3	6.1	1	03/02/16 13:13	03/02/16 19:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	583	22.6	1	03/02/16 13:13	03/02/16 19:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	19.0	1	03/02/16 13:13	03/02/16 19:33	60-29-7	
Ethylbenzene	ND	ug/kg	58.3	8.7	1	03/02/16 13:13	03/02/16 19:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/02/16 13:13	03/02/16 19:33	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-98 **Lab ID: 10339856009** Collected: 02/24/16 11:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.3	10.6	1	03/02/16 13:13	03/02/16 19:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.3	10.2	1	03/02/16 13:13	03/02/16 19:33	99-87-6	
Methylene Chloride	ND	ug/kg	583	17.4	1	03/02/16 13:13	03/02/16 19:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.2	1	03/02/16 13:13	03/02/16 19:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.3	10.9	1	03/02/16 13:13	03/02/16 19:33	1634-04-4	
Naphthalene	ND	ug/kg	233	84.1	1	03/02/16 13:13	03/02/16 19:33	91-20-3	
n-Propylbenzene	ND	ug/kg	58.3	12.5	1	03/02/16 13:13	03/02/16 19:33	103-65-1	
Styrene	ND	ug/kg	58.3	9.3	1	03/02/16 13:13	03/02/16 19:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/02/16 13:13	03/02/16 19:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/02/16 13:13	03/02/16 19:33	79-34-5	L2
Tetrachloroethene	ND	ug/kg	58.3	12.0	1	03/02/16 13:13	03/02/16 19:33	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	92.3	1	03/02/16 13:13	03/02/16 19:33	109-99-9	
Toluene	ND	ug/kg	58.3	11.2	1	03/02/16 13:13	03/02/16 19:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.3	22.6	1	03/02/16 13:13	03/02/16 19:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.3	10.6	1	03/02/16 13:13	03/02/16 19:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.3	11.4	1	03/02/16 13:13	03/02/16 19:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.3	16.0	1	03/02/16 13:13	03/02/16 19:33	79-00-5	
Trichloroethene	ND	ug/kg	58.3	14.1	1	03/02/16 13:13	03/02/16 19:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	40.4	1	03/02/16 13:13	03/02/16 19:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	16.1	1	03/02/16 13:13	03/02/16 19:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	13.8	1	03/02/16 13:13	03/02/16 19:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.3	11.7	1	03/02/16 13:13	03/02/16 19:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.3	11.3	1	03/02/16 13:13	03/02/16 19:33	108-67-8	
Vinyl chloride	ND	ug/kg	23.3	10.5	1	03/02/16 13:13	03/02/16 19:33	75-01-4	
Xylene (Total)	ND	ug/kg	175	34.9	1	03/02/16 13:13	03/02/16 19:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	75-129		1	03/02/16 13:13	03/02/16 19:33	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/02/16 13:13	03/02/16 19:33	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/02/16 13:13	03/02/16 19:33	460-00-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-36 **Lab ID: 10339856010** Collected: 02/24/16 11:15 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**2.1**	%	0.10	0.10	1		03/01/16 12:13		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1100	245	1	03/02/16 13:13	03/02/16 19:49	67-64-1	
Allyl chloride	ND	ug/kg	219	13.4	1	03/02/16 13:13	03/02/16 19:49	107-05-1	
Benzene	ND	ug/kg	54.8	7.7	1	03/02/16 13:13	03/02/16 19:49	71-43-2	
Bromobenzene	ND	ug/kg	54.8	13.3	1	03/02/16 13:13	03/02/16 19:49	108-86-1	
Bromochloromethane	ND	ug/kg	54.8	10.5	1	03/02/16 13:13	03/02/16 19:49	74-97-5	
Bromodichloromethane	ND	ug/kg	54.8	9.7	1	03/02/16 13:13	03/02/16 19:49	75-27-4	
Bromoform	ND	ug/kg	548	13.0	1	03/02/16 13:13	03/02/16 19:49	75-25-2	
Bromomethane	ND	ug/kg	548	96.2	1	03/02/16 13:13	03/02/16 19:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	274	90.9	1	03/02/16 13:13	03/02/16 19:49	78-93-3	
n-Butylbenzene	ND	ug/kg	54.8	10.3	1	03/02/16 13:13	03/02/16 19:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.8	11.2	1	03/02/16 13:13	03/02/16 19:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.8	14.7	1	03/02/16 13:13	03/02/16 19:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.8	13.3	1	03/02/16 13:13	03/02/16 19:49	56-23-5	
Chlorobenzene	ND	ug/kg	54.8	8.9	1	03/02/16 13:13	03/02/16 19:49	108-90-7	
Chloroethane	ND	ug/kg	548	26.2	1	03/02/16 13:13	03/02/16 19:49	75-00-3	
Chloroform	ND	ug/kg	54.8	9.2	1	03/02/16 13:13	03/02/16 19:49	67-66-3	
Chloromethane	ND	ug/kg	219	11.1	1	03/02/16 13:13	03/02/16 19:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.8	11.3	1	03/02/16 13:13	03/02/16 19:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.8	10.3	1	03/02/16 13:13	03/02/16 19:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	548	42.4	1	03/02/16 13:13	03/02/16 19:49	96-12-8	
Dibromochloromethane	ND	ug/kg	219	8.5	1	03/02/16 13:13	03/02/16 19:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.8	8.8	1	03/02/16 13:13	03/02/16 19:49	106-93-4	
Dibromomethane	ND	ug/kg	54.8	12.9	1	03/02/16 13:13	03/02/16 19:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.8	13.3	1	03/02/16 13:13	03/02/16 19:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.8	13.4	1	03/02/16 13:13	03/02/16 19:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.8	11.6	1	03/02/16 13:13	03/02/16 19:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	219	13.5	1	03/02/16 13:13	03/02/16 19:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.8	10.5	1	03/02/16 13:13	03/02/16 19:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.8	12.3	1	03/02/16 13:13	03/02/16 19:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.8	12.5	1	03/02/16 13:13	03/02/16 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.8	19.5	1	03/02/16 13:13	03/02/16 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.8	9.0	1	03/02/16 13:13	03/02/16 19:49	156-60-5	
Dichlorofluoromethane	ND	ug/kg	548	51.5	1	03/02/16 13:13	03/02/16 19:49	75-43-4	
1,2-Dichloropropane	ND	ug/kg	54.8	11.2	1	03/02/16 13:13	03/02/16 19:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.8	8.6	1	03/02/16 13:13	03/02/16 19:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	219	22.1	1	03/02/16 13:13	03/02/16 19:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.8	11.0	1	03/02/16 13:13	03/02/16 19:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.8	5.7	1	03/02/16 13:13	03/02/16 19:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	548	21.2	1	03/02/16 13:13	03/02/16 19:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	219	17.9	1	03/02/16 13:13	03/02/16 19:49	60-29-7	
Ethylbenzene	ND	ug/kg	54.8	8.2	1	03/02/16 13:13	03/02/16 19:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	274	23.3	1	03/02/16 13:13	03/02/16 19:49	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-36 **Lab ID: 10339856010** Collected: 02/24/16 11:15 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.8	10	1	03/02/16 13:13	03/02/16 19:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.8	9.6	1	03/02/16 13:13	03/02/16 19:49	99-87-6	
Methylene Chloride	ND	ug/kg	548	16.3	1	03/02/16 13:13	03/02/16 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	274	69.7	1	03/02/16 13:13	03/02/16 19:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.8	10.3	1	03/02/16 13:13	03/02/16 19:49	1634-04-4	
Naphthalene	ND	ug/kg	219	79.0	1	03/02/16 13:13	03/02/16 19:49	91-20-3	
n-Propylbenzene	ND	ug/kg	54.8	11.7	1	03/02/16 13:13	03/02/16 19:49	103-65-1	
Styrene	ND	ug/kg	54.8	8.7	1	03/02/16 13:13	03/02/16 19:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.8	10.5	1	03/02/16 13:13	03/02/16 19:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.8	10.5	1	03/02/16 13:13	03/02/16 19:49	79-34-5	L2
Tetrachloroethene	ND	ug/kg	54.8	11.3	1	03/02/16 13:13	03/02/16 19:49	127-18-4	
Tetrahydrofuran	ND	ug/kg	2190	86.6	1	03/02/16 13:13	03/02/16 19:49	109-99-9	
Toluene	ND	ug/kg	54.8	10.5	1	03/02/16 13:13	03/02/16 19:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.8	21.2	1	03/02/16 13:13	03/02/16 19:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.8	10	1	03/02/16 13:13	03/02/16 19:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.8	10.7	1	03/02/16 13:13	03/02/16 19:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.8	15.0	1	03/02/16 13:13	03/02/16 19:49	79-00-5	
Trichloroethene	ND	ug/kg	54.8	13.3	1	03/02/16 13:13	03/02/16 19:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	219	37.9	1	03/02/16 13:13	03/02/16 19:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	219	15.1	1	03/02/16 13:13	03/02/16 19:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	219	12.9	1	03/02/16 13:13	03/02/16 19:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.8	11.0	1	03/02/16 13:13	03/02/16 19:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.8	10.6	1	03/02/16 13:13	03/02/16 19:49	108-67-8	
Vinyl chloride	ND	ug/kg	21.9	9.8	1	03/02/16 13:13	03/02/16 19:49	75-01-4	
Xylene (Total)	ND	ug/kg	164	32.8	1	03/02/16 13:13	03/02/16 19:49	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/02/16 13:13	03/02/16 19:49	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/02/16 13:13	03/02/16 19:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/02/16 13:13	03/02/16 19:49	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-45 **Lab ID: 10339856011** Collected: 02/24/16 14:45 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.3**	%	0.10	0.10	1		03/01/16 12:13		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	264	1	03/03/16 14:01	03/03/16 17:21	67-64-1	
Allyl chloride	ND	ug/kg	236	14.4	1	03/03/16 14:01	03/03/16 17:21	107-05-1	
Benzene	ND	ug/kg	23.6	12.5	1	03/03/16 14:01	03/03/16 17:21	71-43-2	
Bromobenzene	ND	ug/kg	59.0	14.3	1	03/03/16 14:01	03/03/16 17:21	108-86-1	
Bromochloromethane	ND	ug/kg	59.0	11.3	1	03/03/16 14:01	03/03/16 17:21	74-97-5	
Bromodichloromethane	ND	ug/kg	59.0	10.5	1	03/03/16 14:01	03/03/16 17:21	75-27-4	
Bromoform	ND	ug/kg	590	14.0	1	03/03/16 14:01	03/03/16 17:21	75-25-2	
Bromomethane	ND	ug/kg	590	104	1	03/03/16 14:01	03/03/16 17:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	295	97.9	1	03/03/16 14:01	03/03/16 17:21	78-93-3	
n-Butylbenzene	ND	ug/kg	59.0	11.1	1	03/03/16 14:01	03/03/16 17:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.0	12.0	1	03/03/16 14:01	03/03/16 17:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.0	15.8	1	03/03/16 14:01	03/03/16 17:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.0	14.3	1	03/03/16 14:01	03/03/16 17:21	56-23-5	
Chlorobenzene	ND	ug/kg	59.0	9.6	1	03/03/16 14:01	03/03/16 17:21	108-90-7	
Chloroethane	ND	ug/kg	590	28.2	1	03/03/16 14:01	03/03/16 17:21	75-00-3	
Chloroform	ND	ug/kg	59.0	9.9	1	03/03/16 14:01	03/03/16 17:21	67-66-3	
Chloromethane	ND	ug/kg	236	11.9	1	03/03/16 14:01	03/03/16 17:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.0	12.1	1	03/03/16 14:01	03/03/16 17:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.0	11.1	1	03/03/16 14:01	03/03/16 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	590	45.6	1	03/03/16 14:01	03/03/16 17:21	96-12-8	
Dibromochloromethane	ND	ug/kg	59.0	9.1	1	03/03/16 14:01	03/03/16 17:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.0	10	1	03/03/16 14:01	03/03/16 17:21	106-93-4	
Dibromomethane	ND	ug/kg	59.0	13.9	1	03/03/16 14:01	03/03/16 17:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.0	14.3	1	03/03/16 14:01	03/03/16 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.0	14.4	1	03/03/16 14:01	03/03/16 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.0	12.5	1	03/03/16 14:01	03/03/16 17:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	236	14.5	1	03/03/16 14:01	03/03/16 17:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.0	11.3	1	03/03/16 14:01	03/03/16 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.0	13.2	1	03/03/16 14:01	03/03/16 17:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.0	13.4	1	03/03/16 14:01	03/03/16 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.0	21.0	1	03/03/16 14:01	03/03/16 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.0	9.7	1	03/03/16 14:01	03/03/16 17:21	156-60-5	
Dichlorofluoromethane	ND	ug/kg	590	55.4	1	03/03/16 14:01	03/03/16 17:21	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.0	12.0	1	03/03/16 14:01	03/03/16 17:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.0	9.2	1	03/03/16 14:01	03/03/16 17:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	236	23.8	1	03/03/16 14:01	03/03/16 17:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.0	11.8	1	03/03/16 14:01	03/03/16 17:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.0	6.1	1	03/03/16 14:01	03/03/16 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.0	22.9	1	03/03/16 14:01	03/03/16 17:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	236	19.2	1	03/03/16 14:01	03/03/16 17:21	60-29-7	
Ethylbenzene	ND	ug/kg	59.0	9.4	1	03/03/16 14:01	03/03/16 17:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	295	25.1	1	03/03/16 14:01	03/03/16 17:21	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: B30-S-45 **Lab ID: 10339856011** Collected: 02/24/16 14:45 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.0	10.7	1	03/03/16 14:01	03/03/16 17:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.0	10.3	1	03/03/16 14:01	03/03/16 17:21	99-87-6	
Methylene Chloride	ND	ug/kg	236	17.6	1	03/03/16 14:01	03/03/16 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	295	75.0	1	03/03/16 14:01	03/03/16 17:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.0	15.9	1	03/03/16 14:01	03/03/16 17:21	1634-04-4	
Naphthalene	ND	ug/kg	236	85.0	1	03/03/16 14:01	03/03/16 17:21	91-20-3	
n-Propylbenzene	ND	ug/kg	59.0	14.9	1	03/03/16 14:01	03/03/16 17:21	103-65-1	
Styrene	ND	ug/kg	59.0	9.4	1	03/03/16 14:01	03/03/16 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.0	11.3	1	03/03/16 14:01	03/03/16 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.0	11.3	1	03/03/16 14:01	03/03/16 17:21	79-34-5	
Tetrachloroethene	ND	ug/kg	59.0	12.1	1	03/03/16 14:01	03/03/16 17:21	127-18-4	
Tetrahydrofuran	ND	ug/kg	2360	93.3	1	03/03/16 14:01	03/03/16 17:21	109-99-9	
Toluene	ND	ug/kg	59.0	11.3	1	03/03/16 14:01	03/03/16 17:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.0	22.9	1	03/03/16 14:01	03/03/16 17:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.0	10.7	1	03/03/16 14:01	03/03/16 17:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.0	11.5	1	03/03/16 14:01	03/03/16 17:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.0	16.2	1	03/03/16 14:01	03/03/16 17:21	79-00-5	
Trichloroethene	ND	ug/kg	59.0	14.3	1	03/03/16 14:01	03/03/16 17:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	236	40.8	1	03/03/16 14:01	03/03/16 17:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	236	16.3	1	03/03/16 14:01	03/03/16 17:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	236	13.9	1	03/03/16 14:01	03/03/16 17:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.0	11.8	1	03/03/16 14:01	03/03/16 17:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.0	13.2	1	03/03/16 14:01	03/03/16 17:21	108-67-8	
Vinyl chloride	ND	ug/kg	59.0	10.6	1	03/03/16 14:01	03/03/16 17:21	75-01-4	
Xylene (Total)	ND	ug/kg	177	35.3	1	03/03/16 14:01	03/03/16 17:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/03/16 14:01	03/03/16 17:21	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/03/16 14:01	03/03/16 17:21	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/03/16 14:01	03/03/16 17:21	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: TRIP BLANK **Lab ID: 10339856012** Collected: 02/24/16 00:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1000	224	1	03/02/16 13:13	03/02/16 15:14	67-64-1	
Allyl chloride	ND	ug/kg	200	12.2	1	03/02/16 13:13	03/02/16 15:14	107-05-1	
Benzene	ND	ug/kg	50.0	7.0	1	03/02/16 13:13	03/02/16 15:14	71-43-2	
Bromobenzene	ND	ug/kg	50.0	12.1	1	03/02/16 13:13	03/02/16 15:14	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	9.6	1	03/02/16 13:13	03/02/16 15:14	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	03/02/16 13:13	03/02/16 15:14	75-27-4	
Bromoform	ND	ug/kg	500	11.9	1	03/02/16 13:13	03/02/16 15:14	75-25-2	
Bromomethane	ND	ug/kg	500	87.8	1	03/02/16 13:13	03/02/16 15:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	83.0	1	03/02/16 13:13	03/02/16 15:14	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	9.4	1	03/02/16 13:13	03/02/16 15:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	10.2	1	03/02/16 13:13	03/02/16 15:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	13.4	1	03/02/16 13:13	03/02/16 15:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	12.1	1	03/02/16 13:13	03/02/16 15:14	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	8.1	1	03/02/16 13:13	03/02/16 15:14	108-90-7	
Chloroethane	ND	ug/kg	500	23.9	1	03/02/16 13:13	03/02/16 15:14	75-00-3	
Chloroform	ND	ug/kg	50.0	8.4	1	03/02/16 13:13	03/02/16 15:14	67-66-3	
Chloromethane	ND	ug/kg	200	10.1	1	03/02/16 13:13	03/02/16 15:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.3	1	03/02/16 13:13	03/02/16 15:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	9.4	1	03/02/16 13:13	03/02/16 15:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	38.7	1	03/02/16 13:13	03/02/16 15:14	96-12-8	
Dibromochloromethane	ND	ug/kg	200	7.7	1	03/02/16 13:13	03/02/16 15:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	8.0	1	03/02/16 13:13	03/02/16 15:14	106-93-4	
Dibromomethane	ND	ug/kg	50.0	11.8	1	03/02/16 13:13	03/02/16 15:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	12.1	1	03/02/16 13:13	03/02/16 15:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	12.2	1	03/02/16 13:13	03/02/16 15:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	10.6	1	03/02/16 13:13	03/02/16 15:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	12.3	1	03/02/16 13:13	03/02/16 15:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	9.6	1	03/02/16 13:13	03/02/16 15:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.2	1	03/02/16 13:13	03/02/16 15:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	11.4	1	03/02/16 13:13	03/02/16 15:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	17.8	1	03/02/16 13:13	03/02/16 15:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	8.2	1	03/02/16 13:13	03/02/16 15:14	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	47.0	1	03/02/16 13:13	03/02/16 15:14	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	10.2	1	03/02/16 13:13	03/02/16 15:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	7.8	1	03/02/16 13:13	03/02/16 15:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	20.2	1	03/02/16 13:13	03/02/16 15:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.0	1	03/02/16 13:13	03/02/16 15:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	5.2	1	03/02/16 13:13	03/02/16 15:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	500	19.4	1	03/02/16 13:13	03/02/16 15:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	16.3	1	03/02/16 13:13	03/02/16 15:14	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	7.5	1	03/02/16 13:13	03/02/16 15:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	21.3	1	03/02/16 13:13	03/02/16 15:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	9.1	1	03/02/16 13:13	03/02/16 15:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	8.7	1	03/02/16 13:13	03/02/16 15:14	99-87-6	
Methylene Chloride	ND	ug/kg	500	14.9	1	03/02/16 13:13	03/02/16 15:14	75-09-2	

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ANALYTICAL RESULTS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Sample: TRIP BLANK **Lab ID: 10339856012** Collected: 02/24/16 00:00 Received: 02/26/16 12:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	63.6	1	03/02/16 13:13	03/02/16 15:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	9.4	1	03/02/16 13:13	03/02/16 15:14	1634-04-4	
Naphthalene	ND	ug/kg	200	72.1	1	03/02/16 13:13	03/02/16 15:14	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	10.7	1	03/02/16 13:13	03/02/16 15:14	103-65-1	
Styrene	ND	ug/kg	50.0	7.9	1	03/02/16 13:13	03/02/16 15:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/02/16 13:13	03/02/16 15:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/02/16 13:13	03/02/16 15:14	79-34-5	L2
Tetrachloroethene	ND	ug/kg	50.0	10.3	1	03/02/16 13:13	03/02/16 15:14	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	79.1	1	03/02/16 13:13	03/02/16 15:14	109-99-9	
Toluene	ND	ug/kg	50.0	9.6	1	03/02/16 13:13	03/02/16 15:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	19.4	1	03/02/16 13:13	03/02/16 15:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	03/02/16 13:13	03/02/16 15:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	9.7	1	03/02/16 13:13	03/02/16 15:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.7	1	03/02/16 13:13	03/02/16 15:14	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.1	1	03/02/16 13:13	03/02/16 15:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	34.6	1	03/02/16 13:13	03/02/16 15:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	13.8	1	03/02/16 13:13	03/02/16 15:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	11.8	1	03/02/16 13:13	03/02/16 15:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.0	1	03/02/16 13:13	03/02/16 15:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	9.7	1	03/02/16 13:13	03/02/16 15:14	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	9.0	1	03/02/16 13:13	03/02/16 15:14	75-01-4	
Xylene (Total)	ND	ug/kg	150	29.9	1	03/02/16 13:13	03/02/16 15:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	75-129		1	03/02/16 13:13	03/02/16 15:14	17060-07-0	
Toluene-d8 (S)	95	%.	75-125		1	03/02/16 13:13	03/02/16 15:14	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/02/16 13:13	03/02/16 15:14	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MPRP/61690 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10339856001, 10339856002, 10339856003, 10339856004, 10339856005, 10339856006, 10339856007, 10339856008, 10339856009

SAMPLE DUPLICATE: 2200478

Parameter	Units	10339714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	15.2	1	30	

SAMPLE DUPLICATE: 2200479

Parameter	Units	10339856003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.8	9.1	3	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MPRP/61712
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10339856010, 10339856011

SAMPLE DUPLICATE: 2201167

Parameter	Units	10340013001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.0	16.8	7	30	

SAMPLE DUPLICATE: 2201208

Parameter	Units	10340004012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	74.3	74.3	0	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MSV/34765 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10339856003, 10339856004

METHOD BLANK: 2201014 | Matrix: Solid
Associated Lab Samples: 10339856003, 10339856004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/01/16 13:23	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/01/16 13:23	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/01/16 13:23	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/01/16 13:23	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/01/16 13:23	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/01/16 13:23	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/01/16 13:23	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/01/16 13:23	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/01/16 13:23	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/01/16 13:23	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/01/16 13:23	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/01/16 13:23	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/01/16 13:23	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/01/16 13:23	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/01/16 13:23	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/01/16 13:23	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/01/16 13:23	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/01/16 13:23	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/01/16 13:23	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/01/16 13:23	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/01/16 13:23	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/01/16 13:23	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/01/16 13:23	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/01/16 13:23	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/01/16 13:23	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/01/16 13:23	
Acetone	ug/kg	ND	1000	224	03/01/16 13:23	
Allyl chloride	ug/kg	ND	200	12.2	03/01/16 13:23	
Benzene	ug/kg	ND	50.0	7.0	03/01/16 13:23	
Bromobenzene	ug/kg	ND	50.0	12.1	03/01/16 13:23	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/01/16 13:23	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/01/16 13:23	
Bromoform	ug/kg	ND	500	11.9	03/01/16 13:23	
Bromomethane	ug/kg	ND	500	87.8	03/01/16 13:23	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/01/16 13:23	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/01/16 13:23	
Chloroethane	ug/kg	ND	500	23.9	03/01/16 13:23	
Chloroform	ug/kg	ND	50.0	8.4	03/01/16 13:23	
Chloromethane	ug/kg	ND	200	10.1	03/01/16 13:23	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/01/16 13:23	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/01/16 13:23	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

METHOD BLANK: 2201014 Matrix: Solid
Associated Lab Samples: 10339856003, 10339856004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/01/16 13:23	
Dibromomethane	ug/kg	ND	50.0	11.8	03/01/16 13:23	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/01/16 13:23	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/01/16 13:23	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/01/16 13:23	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/01/16 13:23	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/01/16 13:23	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/01/16 13:23	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/01/16 13:23	
Methylene Chloride	ug/kg	ND	500	14.9	03/01/16 13:23	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/01/16 13:23	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/01/16 13:23	
Naphthalene	ug/kg	ND	200	72.1	03/01/16 13:23	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/01/16 13:23	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/01/16 13:23	
Styrene	ug/kg	ND	50.0	7.9	03/01/16 13:23	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/01/16 13:23	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/01/16 13:23	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/01/16 13:23	
Toluene	ug/kg	ND	50.0	9.6	03/01/16 13:23	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/01/16 13:23	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/01/16 13:23	
Trichloroethene	ug/kg	ND	50.0	12.1	03/01/16 13:23	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/01/16 13:23	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/01/16 13:23	
Xylene (Total)	ug/kg	ND	150	29.9	03/01/16 13:23	
1,2-Dichloroethane-d4 (S)	%.	100	75-129		03/01/16 13:23	
4-Bromofluorobenzene (S)	%.	96	75-125		03/01/16 13:23	
Toluene-d8 (S)	%.	98	75-125		03/01/16 13:23	

LABORATORY CONTROL SAMPLE: 2201015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	872	87	71-127	
1,1,1-Trichloroethane	ug/kg	1000	906	91	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	902	90	50-138	
1,1,2-Trichloroethane	ug/kg	1000	905	90	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	878	88	53-144	
1,1-Dichloroethane	ug/kg	1000	896	90	61-134	
1,1-Dichloroethene	ug/kg	1000	809	81	57-135	
1,1-Dichloropropene	ug/kg	1000	872	87	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	971	97	32-150	
1,2,3-Trichloropropane	ug/kg	1000	852	85	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	959	96	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2201015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	891	89	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1990	80	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	904	90	69-130	
1,2-Dichlorobenzene	ug/kg	1000	897	90	72-125	
1,2-Dichloroethane	ug/kg	1000	861	86	62-125	
1,2-Dichloropropane	ug/kg	1000	850	85	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	920	92	71-129	
1,3-Dichlorobenzene	ug/kg	1000	876	88	72-126	
1,3-Dichloropropane	ug/kg	1000	901	90	70-125	
1,4-Dichlorobenzene	ug/kg	1000	874	87	70-126	
2,2-Dichloropropane	ug/kg	1000	934	93	48-134	
2-Butanone (MEK)	ug/kg	5000	4350	87	38-149	
2-Chlorotoluene	ug/kg	1000	899	90	71-129	
4-Chlorotoluene	ug/kg	1000	869	87	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4410	88	52-145	
Acetone	ug/kg	5000	4460	89	65-142	
Allyl chloride	ug/kg	1000	800	80	54-125	
Benzene	ug/kg	1000	869	87	64-125	
Bromobenzene	ug/kg	1000	851	85	70-125	
Bromochloromethane	ug/kg	1000	910	91	68-125	
Bromodichloromethane	ug/kg	1000	859	86	67-125	
Bromoform	ug/kg	1000	862	86	56-127	
Bromomethane	ug/kg	1000	839	84	34-137	
Carbon tetrachloride	ug/kg	1000	857	86	58-138	
Chlorobenzene	ug/kg	1000	898	90	72-125	
Chloroethane	ug/kg	1000	748	75	39-148	CH
Chloroform	ug/kg	1000	844	84	67-125	
Chloromethane	ug/kg	1000	594	59	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	872	87	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	844	84	62-127	
Dibromochloromethane	ug/kg	1000	835	83	67-125	
Dibromomethane	ug/kg	1000	894	89	63-129	
Dichlorodifluoromethane	ug/kg	1000	541	54	34-139	
Dichlorofluoromethane	ug/kg	1000	745	75	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	913	91	51-125	
Ethylbenzene	ug/kg	1000	859	86	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	950	95	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	956	96	75-127	
Methyl-tert-butyl ether	ug/kg	1000	877	88	61-125	
Methylene Chloride	ug/kg	1000	761	76	60-126	
n-Butylbenzene	ug/kg	1000	927	93	67-125	
n-Propylbenzene	ug/kg	1000	885	88	72-133	
Naphthalene	ug/kg	1000	991	99	35-147	
p-Isopropyltoluene	ug/kg	1000	952	95	69-127	
sec-Butylbenzene	ug/kg	1000	936	94	70-127	
Styrene	ug/kg	1000	859	86	73-125	
tert-Butylbenzene	ug/kg	1000	919	92	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2201015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	954	95	66-135	
Tetrahydrofuran	ug/kg	10000	9330	93	66-145	
Toluene	ug/kg	1000	859	86	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	852	85	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	811	81	67-125	
Trichloroethene	ug/kg	1000	902	90	62-141	
Trichlorofluoromethane	ug/kg	1000	878	88	38-150	
Vinyl chloride	ug/kg	1000	711	71	57-131	
Xylene (Total)	ug/kg	3000	2780	93	73-128	
1,2-Dichloroethane-d4 (S)	%.			95	75-129	
4-Bromofluorobenzene (S)	%.			96	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2201019 2201193

Parameter	Units	10339856003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1070	1090	1240	1020	116	94	59-135	19	30	
1,1,1-Trichloroethane	ug/kg	ND	1070	1090	1340	1010	125	93	51-137	28	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1070	1090	1330	994	124	91	40-149	29	30	
1,1,2-Trichloroethane	ug/kg	ND	1070	1090	1310	1030	122	95	54-144	23	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1070	1090	1260	923	118	85	41-150	31	30	R1
1,1-Dichloroethane	ug/kg	ND	1070	1090	1340	978	124	90	53-131	31	30	R1
1,1-Dichloroethene	ug/kg	ND	1070	1090	1190	861	110	79	41-133	32	30	R1
1,1-Dichloropropene	ug/kg	ND	1070	1090	1290	961	120	88	50-139	29	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1070	1090	1340	1060	125	97	52-150	24	30	
1,2,3-Trichloropropane	ug/kg	ND	1070	1090	1250	981	116	90	61-137	24	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1070	1090	1350	1100	126	101	52-142	21	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1070	1090	1280	1010	118	93	56-142	23	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2690	2720	2810	2430	105	89	47-143	14	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1070	1090	1270	1030	118	94	57-136	21	30	
1,2-Dichlorobenzene	ug/kg	ND	1070	1090	1300	1030	121	94	59-136	24	30	
1,2-Dichloroethane	ug/kg	ND	1070	1090	1260	948	117	87	52-133	28	30	
1,2-Dichloropropane	ug/kg	ND	1070	1090	1260	968	117	89	62-129	26	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1070	1090	1320	1030	123	95	54-143	24	30	
1,3-Dichlorobenzene	ug/kg	ND	1070	1090	1250	1000	117	92	60-137	22	30	
1,3-Dichloropropane	ug/kg	ND	1070	1090	1270	1010	118	93	57-138	23	30	
1,4-Dichlorobenzene	ug/kg	ND	1070	1090	1250	992	117	91	51-132	23	30	
2,2-Dichloropropane	ug/kg	ND	1070	1090	1430	1070	133	98	50-134	29	30	
2-Butanone (MEK)	ug/kg	ND	5370	5450	6170	5010	115	92	46-125	21	30	
2-Chlorotoluene	ug/kg	ND	1070	1090	1300	993	121	91	60-141	27	30	
4-Chlorotoluene	ug/kg	ND	1070	1090	1290	997	120	91	65-135	26	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5370	5450	6240	5230	116	96	47-146	18	30	
Acetone	ug/kg	ND	5370	5450	6420	5080	119	93	45-148	23	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2201019 2201193

Parameter	Units	10339856003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/kg	ND	1070	1090	1240	888	116	81	50-135	33	30	R1
Benzene	ug/kg	ND	1070	1090	1300	958	121	88	41-134	30	30	
Bromobenzene	ug/kg	ND	1070	1090	1230	975	114	89	59-134	23	30	
Bromochloromethane	ug/kg	ND	1070	1090	1310	1020	122	94	56-127	25	30	
Bromodichloromethane	ug/kg	ND	1070	1090	1280	995	119	91	55-136	25	30	
Bromoform	ug/kg	ND	1070	1090	1160	1030	108	94	51-139	12	30	
Bromomethane	ug/kg	ND	1070	1090	1200	1500	112	138	35-148	22	30	
Carbon tetrachloride	ug/kg	ND	1070	1090	1270	957	118	88	50-140	28	30	
Chlorobenzene	ug/kg	ND	1070	1090	1250	1000	117	92	59-133	22	30	
Chloroethane	ug/kg	ND	1070	1090	1260	1540	117	141	30-150	20	30	CH
Chloroform	ug/kg	ND	1070	1090	1240	926	115	84	58-128	29	30	
Chloromethane	ug/kg	ND	1070	1090	998	1140	93	105	38-125	13	30	
cis-1,2-Dichloroethene	ug/kg	ND	1070	1090	1270	962	118	88	59-125	28	30	
cis-1,3-Dichloropropene	ug/kg	ND	1070	1090	1270	980	118	90	57-133	26	30	
Dibromochloromethane	ug/kg	ND	1070	1090	1190	950	110	87	54-141	22	30	
Dibromomethane	ug/kg	ND	1070	1090	1260	1040	117	95	53-134	20	30	
Dichlorodifluoromethane	ug/kg	ND	1070	1090	753	791	70	73	30-125	5	30	
Dichlorofluoromethane	ug/kg	ND	1070	1090	1150	1530	107	140	30-150	28	30	
Diethyl ether (Ethyl ether)	ug/kg	ND	1070	1090	1340	845	125	77	46-137	46	30	R1
Ethylbenzene	ug/kg	ND	1070	1090	1220	980	112	88	56-141	22	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1070	1090	1340	1070	125	99	45-150	22	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1070	1090	1330	1090	124	99	48-141	21	30	
Methyl-tert-butyl ether	ug/kg	ND	1070	1090	1300	989	121	91	53-133	27	30	
Methylene Chloride	ug/kg	ND	1070	1090	1200	844	111	77	42-135	35	30	R1
n-Butylbenzene	ug/kg	ND	1070	1090	1390	1060	129	97	52-140	27	30	
n-Propylbenzene	ug/kg	ND	1070	1090	1300	979	120	90	57-142	28	30	
Naphthalene	ug/kg	ND	1070	1090	1620	1340	135	107	41-150	19	30	
p-Isopropyltoluene	ug/kg	ND	1070	1090	1360	1070	127	98	54-139	25	30	
sec-Butylbenzene	ug/kg	ND	1070	1090	1350	1050	126	96	30-150	25	30	
Styrene	ug/kg	ND	1070	1090	1230	976	115	90	53-137	23	30	
tert-Butylbenzene	ug/kg	ND	1070	1090	1300	1020	121	93	59-138	25	30	
Tetrachloroethene	ug/kg	ND	1070	1090	1330	1060	123	97	53-138	23	30	
Tetrahydrofuran	ug/kg	ND	10700	10900	12600	10500	118	97	50-145	18	30	
Toluene	ug/kg	ND	1070	1090	1230	966	114	89	55-134	24	30	
trans-1,2-Dichloroethene	ug/kg	ND	1070	1090	1250	903	116	83	44-135	32	30	R1
trans-1,3-Dichloropropene	ug/kg	ND	1070	1090	1240	958	115	88	59-139	26	30	
Trichloroethene	ug/kg	ND	1070	1090	1250	1060	117	97	52-143	17	30	
Trichlorofluoromethane	ug/kg	ND	1070	1090	1270	1870	118	172	30-150	39	30	M1,R1
Vinyl chloride	ug/kg	ND	1070	1090	1080	1270	101	117	36-127	16	30	
Xylene (Total)	ug/kg	ND	3220	3270	3910	3120	121	96	56-137	22	30	
1,2-Dichloroethane-d4 (S)	%.						102	96	75-129			
4-Bromofluorobenzene (S)	%.						98	94	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MSV/34766 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10339856001, 10339856002

METHOD BLANK: 2201052 | Matrix: Solid
Associated Lab Samples: 10339856001, 10339856002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/01/16 12:53	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/01/16 12:53	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/01/16 12:53	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/01/16 12:53	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/01/16 12:53	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/01/16 12:53	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/01/16 12:53	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/01/16 12:53	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/01/16 12:53	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/01/16 12:53	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/01/16 12:53	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/01/16 12:53	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/01/16 12:53	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/01/16 12:53	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/01/16 12:53	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/01/16 12:53	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/01/16 12:53	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/01/16 12:53	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/01/16 12:53	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/01/16 12:53	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/01/16 12:53	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/01/16 12:53	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/01/16 12:53	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/01/16 12:53	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/01/16 12:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/01/16 12:53	
Acetone	ug/kg	ND	1000	224	03/01/16 12:53	
Allyl chloride	ug/kg	ND	200	12.2	03/01/16 12:53	
Benzene	ug/kg	ND	20.0	10.6	03/01/16 12:53	
Bromobenzene	ug/kg	ND	50.0	12.1	03/01/16 12:53	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/01/16 12:53	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/01/16 12:53	
Bromoform	ug/kg	ND	500	11.9	03/01/16 12:53	
Bromomethane	ug/kg	ND	500	87.8	03/01/16 12:53	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/01/16 12:53	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/01/16 12:53	
Chloroethane	ug/kg	ND	500	23.9	03/01/16 12:53	
Chloroform	ug/kg	ND	50.0	8.4	03/01/16 12:53	
Chloromethane	ug/kg	ND	200	10.1	03/01/16 12:53	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/01/16 12:53	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/01/16 12:53	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

METHOD BLANK: 2201052 Matrix: Solid
Associated Lab Samples: 10339856001, 10339856002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/01/16 12:53	
Dibromomethane	ug/kg	ND	50.0	11.8	03/01/16 12:53	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/01/16 12:53	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/01/16 12:53	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/01/16 12:53	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/01/16 12:53	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/01/16 12:53	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/01/16 12:53	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/01/16 12:53	
Methylene Chloride	ug/kg	ND	200	14.9	03/01/16 12:53	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/01/16 12:53	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/01/16 12:53	
Naphthalene	ug/kg	ND	200	72.1	03/01/16 12:53	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/01/16 12:53	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/01/16 12:53	
Styrene	ug/kg	ND	50.0	7.9	03/01/16 12:53	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/01/16 12:53	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/01/16 12:53	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/01/16 12:53	
Toluene	ug/kg	ND	50.0	9.6	03/01/16 12:53	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/01/16 12:53	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	19.4	03/01/16 12:53	
Trichloroethene	ug/kg	ND	50.0	12.1	03/01/16 12:53	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/01/16 12:53	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/01/16 12:53	
Xylene (Total)	ug/kg	ND	150	29.9	03/01/16 12:53	
1,2-Dichloroethane-d4 (S)	%.	98	75-129		03/01/16 12:53	
4-Bromofluorobenzene (S)	%.	100	75-125		03/01/16 12:53	
Toluene-d8 (S)	%.	98	75-125		03/01/16 12:53	

LABORATORY CONTROL SAMPLE & LCSD: 2201053 2201054

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1030	1090	103	109	71-127	6	20	
1,1,1-Trichloroethane	ug/kg	1000	1050	1170	105	117	64-132	11	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	951	1020	95	102	50-138	7	20	
1,1,2-Trichloroethane	ug/kg	1000	1060	1070	106	107	69-126	2	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1010	1120	101	112	53-144	10	20	
1,1-Dichloroethane	ug/kg	1000	1080	1160	108	116	61-134	7	20	
1,1-Dichloroethene	ug/kg	1000	909	995	91	99	57-135	9	20	
1,1-Dichloropropene	ug/kg	1000	953	1030	95	103	59-133	7	20	
1,2,3-Trichlorobenzene	ug/kg	1000	976	1060	98	106	32-150	8	20	
1,2,3-Trichloropropane	ug/kg	1000	977	1030	98	103	62-130	5	20	
1,2,4-Trichlorobenzene	ug/kg	1000	993	1040	99	104	38-138	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE & LCSD: 2201053 2201054

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	996	1050	100	105	70-127	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2370	2480	95	99	40-141	5	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1000	1020	100	102	69-130	2	20	
1,2-Dichlorobenzene	ug/kg	1000	977	1040	98	104	72-125	7	20	
1,2-Dichloroethane	ug/kg	1000	982	1070	98	107	62-125	8	20	
1,2-Dichloropropane	ug/kg	1000	1030	1040	103	104	67-126	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	994	1050	99	105	71-129	5	20	
1,3-Dichlorobenzene	ug/kg	1000	948	1010	95	101	72-126	7	20	
1,3-Dichloropropane	ug/kg	1000	987	1010	99	101	70-125	2	20	
1,4-Dichlorobenzene	ug/kg	1000	958	1020	96	102	70-126	6	20	
2,2-Dichloropropane	ug/kg	1000	1040	1130	104	113	48-134	9	20	
2-Butanone (MEK)	ug/kg	5000	4520	4620	90	92	38-149	2	20	
2-Chlorotoluene	ug/kg	1000	976	1050	98	105	71-129	7	20	
4-Chlorotoluene	ug/kg	1000	970	1050	97	105	72-128	8	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5490	5360	110	107	52-145	2	20	
Acetone	ug/kg	5000	5540	5480	111	110	65-142	1	20	
Allyl chloride	ug/kg	1000	996	1120	100	112	54-125	11	20	
Benzene	ug/kg	1000	935	1040	94	104	64-125	11	20	
Bromobenzene	ug/kg	1000	1000	1060	100	106	70-125	5	20	
Bromochloromethane	ug/kg	1000	916	1060	92	106	68-125	15	20	
Bromodichloromethane	ug/kg	1000	1000	1070	100	107	67-125	6	20	
Bromoform	ug/kg	1000	1060	1060	106	106	56-127	0	20	
Bromomethane	ug/kg	1000	975	1000	97	100	34-137	3	20	
Carbon tetrachloride	ug/kg	1000	928	1060	93	106	58-138	13	20	
Chlorobenzene	ug/kg	1000	1030	1090	103	109	72-125	6	20	
Chloroethane	ug/kg	1000	1130	1210	113	121	39-148	7	20	
Chloroform	ug/kg	1000	994	1070	99	107	67-125	7	20	
Chloromethane	ug/kg	1000	888	990	89	99	54-125	11	20	
cis-1,2-Dichloroethene	ug/kg	1000	910	1020	91	102	67-125	11	20	
cis-1,3-Dichloropropene	ug/kg	1000	1010	1010	101	101	62-127	0	20	
Dibromochloromethane	ug/kg	1000	990	1070	99	107	67-125	8	20	
Dibromomethane	ug/kg	1000	1040	1010	104	101	63-129	4	20	
Dichlorodifluoromethane	ug/kg	1000	658	756	66	76	34-139	14	20	
Dichlorofluoromethane	ug/kg	1000	1170	1260	117	126	36-144	7	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	1020	1100	102	110	51-125	8	20	
Ethylbenzene	ug/kg	1000	999	1040	100	104	70-129	4	20	
Hexachloro-1,3-butadiene	ug/kg	1000	1020	1170	102	117	48-126	13	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1050	1090	105	109	75-127	4	20	
Methyl-tert-butyl ether	ug/kg	1000	998	1060	100	106	61-125	6	20	
Methylene Chloride	ug/kg	1000	1030	1090	103	109	60-126	5	20	
n-Butylbenzene	ug/kg	1000	1000	1080	100	108	67-125	7	20	
n-Propylbenzene	ug/kg	1000	1030	1120	103	112	72-133	8	20	
Naphthalene	ug/kg	1000	985	1010	99	101	35-147	2	20	
p-Isopropyltoluene	ug/kg	1000	1050	1110	105	111	69-127	6	20	
sec-Butylbenzene	ug/kg	1000	1020	1100	102	110	70-127	7	20	
Styrene	ug/kg	1000	997	1030	100	103	73-125	4	20	
tert-Butylbenzene	ug/kg	1000	1050	1120	105	112	71-130	7	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE & LCSD: 2201053 2201054

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	1050	1040	105	104	66-135	1	20	
Tetrahydrofuran	ug/kg	10000	8610	9230	86	92	66-145	7	20	
Toluene	ug/kg	1000	997	1040	100	104	69-125	4	20	
trans-1,2-Dichloroethene	ug/kg	1000	930	1050	93	105	55-135	12	20	
trans-1,3-Dichloropropene	ug/kg	1000	1050	1050	105	105	67-125	0	20	
Trichloroethene	ug/kg	1000	1020	1060	102	106	62-141	4	20	
Trichlorofluoromethane	ug/kg	1000	1200	1200	120	120	38-150	0	20	
Vinyl chloride	ug/kg	1000	931	1030	93	103	57-131	10	20	
Xylene (Total)	ug/kg	3000	3050	3260	102	109	73-128	6	20	
1,2-Dichloroethane-d4 (S)	%.				100	101	75-129			
4-Bromofluorobenzene (S)	%.				96	96	75-125			
Toluene-d8 (S)	%.				101	100	75-125			

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MSV/34787 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10339856005, 10339856006, 10339856007, 10339856008, 10339856009, 10339856010, 10339856012

METHOD BLANK: 2201933 Matrix: Solid
Associated Lab Samples: 10339856005, 10339856006, 10339856007, 10339856008, 10339856009, 10339856010, 10339856012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/02/16 14:42	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/02/16 14:42	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/02/16 14:42	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/02/16 14:42	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/02/16 14:42	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/02/16 14:42	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/02/16 14:42	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/02/16 14:42	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/02/16 14:42	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/02/16 14:42	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/02/16 14:42	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/02/16 14:42	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/02/16 14:42	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/02/16 14:42	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/02/16 14:42	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/02/16 14:42	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/02/16 14:42	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/02/16 14:42	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/02/16 14:42	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/02/16 14:42	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/02/16 14:42	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/02/16 14:42	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/02/16 14:42	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/02/16 14:42	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/02/16 14:42	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/02/16 14:42	
Acetone	ug/kg	ND	1000	224	03/02/16 14:42	
Allyl chloride	ug/kg	ND	200	12.2	03/02/16 14:42	
Benzene	ug/kg	ND	50.0	7.0	03/02/16 14:42	
Bromobenzene	ug/kg	ND	50.0	12.1	03/02/16 14:42	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/02/16 14:42	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/02/16 14:42	
Bromoform	ug/kg	ND	500	11.9	03/02/16 14:42	
Bromomethane	ug/kg	ND	500	87.8	03/02/16 14:42	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/02/16 14:42	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/02/16 14:42	
Chloroethane	ug/kg	ND	500	23.9	03/02/16 14:42	
Chloroform	ug/kg	ND	50.0	8.4	03/02/16 14:42	
Chloromethane	ug/kg	ND	200	10.1	03/02/16 14:42	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/02/16 14:42	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/02/16 14:42	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

METHOD BLANK: 2201933 Matrix: Solid
Associated Lab Samples: 10339856005, 10339856006, 10339856007, 10339856008, 10339856009, 10339856010, 10339856012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/02/16 14:42	
Dibromomethane	ug/kg	ND	50.0	11.8	03/02/16 14:42	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/02/16 14:42	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/02/16 14:42	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/02/16 14:42	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/02/16 14:42	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/02/16 14:42	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/02/16 14:42	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/02/16 14:42	
Methylene Chloride	ug/kg	ND	500	14.9	03/02/16 14:42	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/02/16 14:42	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/02/16 14:42	
Naphthalene	ug/kg	ND	200	72.1	03/02/16 14:42	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/02/16 14:42	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/02/16 14:42	
Styrene	ug/kg	ND	50.0	7.9	03/02/16 14:42	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/02/16 14:42	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/02/16 14:42	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/02/16 14:42	
Toluene	ug/kg	ND	50.0	9.6	03/02/16 14:42	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/02/16 14:42	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/02/16 14:42	
Trichloroethene	ug/kg	ND	50.0	12.1	03/02/16 14:42	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/02/16 14:42	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/02/16 14:42	
Xylene (Total)	ug/kg	ND	150	29.9	03/02/16 14:42	
1,2-Dichloroethane-d4 (S)	%.	96	75-129		03/02/16 14:42	
4-Bromofluorobenzene (S)	%.	96	75-125		03/02/16 14:42	
Toluene-d8 (S)	%.	97	75-125		03/02/16 14:42	

LABORATORY CONTROL SAMPLE: 2201934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	829	83	71-127	
1,1,1-Trichloroethane	ug/kg	1000	839	84	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	402	40	50-138	L0
1,1,2-Trichloroethane	ug/kg	1000	895	89	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	838	84	53-144	
1,1-Dichloroethane	ug/kg	1000	832	83	61-134	
1,1-Dichloroethene	ug/kg	1000	799	80	57-135	
1,1-Dichloropropene	ug/kg	1000	853	85	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	922	92	32-150	
1,2,3-Trichloropropane	ug/kg	1000	882	88	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	916	92	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2201934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	910	91	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1950	78	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	880	88	69-130	
1,2-Dichlorobenzene	ug/kg	1000	903	90	72-125	
1,2-Dichloroethane	ug/kg	1000	842	84	62-125	
1,2-Dichloropropane	ug/kg	1000	840	84	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	908	91	71-129	
1,3-Dichlorobenzene	ug/kg	1000	891	89	72-126	
1,3-Dichloropropane	ug/kg	1000	871	87	70-125	
1,4-Dichlorobenzene	ug/kg	1000	879	88	70-126	
2,2-Dichloropropane	ug/kg	1000	835	83	48-134	
2-Butanone (MEK)	ug/kg	5000	4230	85	38-149	
2-Chlorotoluene	ug/kg	1000	888	89	71-129	
4-Chlorotoluene	ug/kg	1000	877	88	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4380	88	52-145	
Acetone	ug/kg	5000	4720	94	65-142	
Allyl chloride	ug/kg	1000	764	76	54-125	
Benzene	ug/kg	1000	849	85	64-125	
Bromobenzene	ug/kg	1000	894	89	70-125	
Bromochloromethane	ug/kg	1000	924	92	68-125	
Bromodichloromethane	ug/kg	1000	840	84	67-125	
Bromoform	ug/kg	1000	764	76	56-127	
Bromomethane	ug/kg	1000	930	93	34-137	
Carbon tetrachloride	ug/kg	1000	796	80	58-138	
Chlorobenzene	ug/kg	1000	874	87	72-125	
Chloroethane	ug/kg	1000	843	84	39-148	
Chloroform	ug/kg	1000	803	80	67-125	
Chloromethane	ug/kg	1000	583	58	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	852	85	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	876	88	62-127	
Dibromochloromethane	ug/kg	1000	772	77	67-125	
Dibromomethane	ug/kg	1000	893	89	63-129	
Dichlorodifluoromethane	ug/kg	1000	498	50	34-139	
Dichlorofluoromethane	ug/kg	1000	754	75	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	875	87	51-125	
Ethylbenzene	ug/kg	1000	848	85	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	872	87	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	918	92	75-127	
Methyl-tert-butyl ether	ug/kg	1000	863	86	61-125	
Methylene Chloride	ug/kg	1000	781	78	60-126	
n-Butylbenzene	ug/kg	1000	912	91	67-125	
n-Propylbenzene	ug/kg	1000	873	87	72-133	
Naphthalene	ug/kg	1000	981	98	35-147	
p-Isopropyltoluene	ug/kg	1000	908	91	69-127	
sec-Butylbenzene	ug/kg	1000	906	91	70-127	
Styrene	ug/kg	1000	881	88	73-125	
tert-Butylbenzene	ug/kg	1000	873	87	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2201934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	891	89	66-135	
Tetrahydrofuran	ug/kg	10000	10000	100	66-145	
Toluene	ug/kg	1000	844	84	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	847	85	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	782	78	67-125	
Trichloroethene	ug/kg	1000	1250	125	62-141	
Trichlorofluoromethane	ug/kg	1000	869	87	38-150	
Vinyl chloride	ug/kg	1000	681	68	57-131	
Xylene (Total)	ug/kg	3000	2660	89	73-128	
1,2-Dichloroethane-d4 (S)	%.			98	75-129	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2201940 2201941

Parameter	Units	10340052011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1430	1390	1370	625	96	45	59-135	75	30	M1,R1
1,1,1-Trichloroethane	ug/kg	ND	1430	1390	1300	623	91	45	51-137	71	30	M1,R1
1,1,2,2-Tetrachloroethane	ug/kg	ND	1430	1390	1470	659	103	47	40-149	76	30	R1
1,1,2-Trichloroethane	ug/kg	ND	1430	1390	1390	663	97	48	54-144	71	30	M1,R1
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1430	1390	1170	558	82	40	41-150	70	30	M1,R1
1,1-Dichloroethane	ug/kg	ND	1430	1390	1220	598	86	43	53-131	69	30	M1,R1
1,1-Dichloroethene	ug/kg	ND	1430	1390	1190	568	83	41	41-133	70	30	R1
1,1-Dichloropropene	ug/kg	ND	1430	1390	1280	622	90	45	50-139	69	30	M1,R1
1,2,3-Trichlorobenzene	ug/kg	ND	1430	1390	1520	778	107	56	52-150	65	30	R1
1,2,3-Trichloropropane	ug/kg	ND	1430	1390	1410	665	99	48	61-137	72	30	M1,R1
1,2,4-Trichlorobenzene	ug/kg	ND	1430	1390	1540	776	108	56	52-142	66	30	R1
1,2,4-Trimethylbenzene	ug/kg	ND	1430	1390	1460	702	102	51	56-142	70	30	M1,R1
1,2-Dibromo-3-chloropropane	ug/kg	ND	3570	3470	3480	1460	97	42	47-143	82	30	M1,R1
1,2-Dibromoethane (EDB)	ug/kg	ND	1430	1390	1400	646	98	47	57-136	74	30	M1,R1
1,2-Dichlorobenzene	ug/kg	ND	1430	1390	1420	687	100	50	59-136	70	30	M1,R1
1,2-Dichloroethane	ug/kg	ND	1430	1390	1240	609	87	44	52-133	68	30	M1,R1
1,2-Dichloropropane	ug/kg	ND	1430	1390	1290	613	90	44	62-129	71	30	M1,R1
1,3,5-Trimethylbenzene	ug/kg	ND	1430	1390	1470	713	103	51	54-143	69	30	M1,R1
1,3-Dichlorobenzene	ug/kg	ND	1430	1390	1430	710	100	51	60-137	67	30	M1,R1
1,3-Dichloropropane	ug/kg	ND	1430	1390	1350	644	95	46	57-138	71	30	M1,R1
1,4-Dichlorobenzene	ug/kg	ND	1430	1390	1400	694	98	50	51-132	67	30	M1,R1
2,2-Dichloropropane	ug/kg	ND	1430	1390	1310	607	92	44	50-134	73	30	M1,R1
2-Butanone (MEK)	ug/kg	ND	7130	6950	6870	2920	96	42	46-125	81	30	M1,R1
2-Chlorotoluene	ug/kg	ND	1430	1390	1380	682	97	49	60-141	68	30	M1,R1
4-Chlorotoluene	ug/kg	ND	1430	1390	1380	676	97	49	65-135	69	30	M1,R1
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	7130	6950	7080	3130	99	45	47-146	77	30	M1,R1
Acetone	ug/kg	ND	7130	6950	7140	3370	100	49	45-148	72	30	R1

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2201940 2201941

Parameter	Units	10340052011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/kg	ND	1430	1390	1160	558	81	40	50-135	70	30	M1,R1
Benzene	ug/kg	ND	1430	1390	1290	637	90	46	41-134	68	30	R1
Bromobenzene	ug/kg	ND	1430	1390	1390	674	97	49	59-134	69	30	M1,R1
Bromochloromethane	ug/kg	ND	1430	1390	1370	660	96	48	56-127	70	30	M1,R1
Bromodichloromethane	ug/kg	ND	1430	1390	1320	577	93	42	55-136	78	30	M1,R1
Bromoform	ug/kg	ND	1430	1390	1280	689J	90	50	51-139		30	M1
Bromomethane	ug/kg	ND	1430	1390	1330	1340	94	96	35-148	0	30	
Carbon tetrachloride	ug/kg	ND	1430	1390	1290	572	91	41	50-140	77	30	M1,R1
Chlorobenzene	ug/kg	ND	1430	1390	1380	683	97	49	59-133	68	30	M1,R1
Chloroethane	ug/kg	ND	1430	1390	1200	1430	84	103	30-150	18	30	
Chloroform	ug/kg	ND	1430	1390	1240	612	86	43	58-128	68	30	M1,R1
Chloromethane	ug/kg	ND	1430	1390	828	972	58	70	38-125	16	30	
cis-1,2-Dichloroethene	ug/kg	ND	1430	1390	1300	636	91	46	59-125	69	30	M1,R1
cis-1,3-Dichloropropene	ug/kg	ND	1430	1390	1380	610	97	44	57-133	78	30	M1,R1
Dibromochloromethane	ug/kg	ND	1430	1390	1260	621	88	45	54-141	68	30	M1,R1
Dibromomethane	ug/kg	ND	1430	1390	1420	664	99	48	53-134	72	30	M1,R1
Dichlorodifluoromethane	ug/kg	ND	1430	1390	469	540	33	39	30-125	14	30	
Dichlorofluoromethane	ug/kg	ND	1430	1390	1150	1360	81	98	30-150	16	30	
Diethyl ether (Ethyl ether)	ug/kg	ND	1430	1390	909	629	64	45	46-137	36	30	M1,R1
Ethylbenzene	ug/kg	ND	1430	1390	1350	664	95	48	56-141	68	30	M1,R1
Hexachloro-1,3-butadiene	ug/kg	ND	1430	1390	1540	761	108	55	45-150	68	30	R1
Isopropylbenzene (Cumene)	ug/kg	ND	1430	1390	1470	742	103	53	48-141	66	30	R1
Methyl-tert-butyl ether	ug/kg	ND	1430	1390	1310	617	92	44	53-133	72	30	M1,R1
Methylene Chloride	ug/kg	ND	1430	1390	1130	440J	79	32	42-135		30	M1
n-Butylbenzene	ug/kg	ND	1430	1390	1510	730	106	53	52-140	70	30	R1
n-Propylbenzene	ug/kg	ND	1430	1390	1370	684	96	49	57-142	67	30	M1,R1
Naphthalene	ug/kg	ND	1430	1390	1670	792	117	57	41-150	71	30	R1
p-Isopropyltoluene	ug/kg	ND	1430	1390	1500	735	105	53	54-139	69	30	M1,R1
sec-Butylbenzene	ug/kg	ND	1430	1390	1480	723	104	52	30-150	69	30	R1
Styrene	ug/kg	ND	1430	1390	1400	664	98	48	53-137	71	30	M1,R1
tert-Butylbenzene	ug/kg	ND	1430	1390	1430	710	100	51	59-138	67	30	M1,R1
Tetrachloroethene	ug/kg	ND	1430	1390	1450	705	101	51	53-138	69	30	M1,R1
Tetrahydrofuran	ug/kg	ND	14300	13900	15400	7380	108	53	50-145	70	30	R1
Toluene	ug/kg	ND	1430	1390	1330	654	93	47	55-134	68	30	M1,R1
trans-1,2-Dichloroethene	ug/kg	ND	1430	1390	1250	607	88	44	44-135	70	30	R1
trans-1,3-Dichloropropene	ug/kg	ND	1430	1390	1260	492J	88	35	59-139		30	M1
Trichloroethene	ug/kg	ND	1430	1390	1340	650	94	47	52-143	70	30	M1,R1
Trichlorofluoromethane	ug/kg	ND	1430	1390	1270	1470	89	106	30-150	15	30	
Vinyl chloride	ug/kg	ND	1430	1390	958	1110	67	80	36-127	15	30	
Xylene (Total)	ug/kg	ND	4280	4170	4300	2120	101	51	56-137	68	30	MS,RS
1,2-Dichloroethane-d4 (S)	%.						92	91	75-129			
4-Bromofluorobenzene (S)	%.						96	96	75-125			
Toluene-d8 (S)	%.						98	98	75-125			

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

QC Batch: MSV/34798
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10339856011

METHOD BLANK: 2202976
Matrix: Solid
Associated Lab Samples: 10339856011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/03/16 15:15	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/03/16 15:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/03/16 15:15	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/03/16 15:15	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/03/16 15:15	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/03/16 15:15	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/03/16 15:15	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/03/16 15:15	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/03/16 15:15	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/03/16 15:15	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/03/16 15:15	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/03/16 15:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/03/16 15:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/03/16 15:15	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/03/16 15:15	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/03/16 15:15	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/03/16 15:15	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/03/16 15:15	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/03/16 15:15	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/03/16 15:15	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/03/16 15:15	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/03/16 15:15	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/03/16 15:15	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/03/16 15:15	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/03/16 15:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/03/16 15:15	
Acetone	ug/kg	ND	1000	224	03/03/16 15:15	
Allyl chloride	ug/kg	ND	200	12.2	03/03/16 15:15	
Benzene	ug/kg	ND	20.0	10.6	03/03/16 15:15	
Bromobenzene	ug/kg	ND	50.0	12.1	03/03/16 15:15	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/03/16 15:15	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/03/16 15:15	
Bromoform	ug/kg	ND	500	11.9	03/03/16 15:15	
Bromomethane	ug/kg	ND	500	87.8	03/03/16 15:15	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/03/16 15:15	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/03/16 15:15	
Chloroethane	ug/kg	ND	500	23.9	03/03/16 15:15	
Chloroform	ug/kg	ND	50.0	8.4	03/03/16 15:15	
Chloromethane	ug/kg	ND	200	10.1	03/03/16 15:15	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/03/16 15:15	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/03/16 15:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

METHOD BLANK: 2202976 Matrix: Solid
Associated Lab Samples: 10339856011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/03/16 15:15	
Dibromomethane	ug/kg	ND	50.0	11.8	03/03/16 15:15	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/03/16 15:15	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/03/16 15:15	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/03/16 15:15	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/03/16 15:15	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/03/16 15:15	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/03/16 15:15	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/03/16 15:15	
Methylene Chloride	ug/kg	ND	200	14.9	03/03/16 15:15	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/03/16 15:15	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/03/16 15:15	
Naphthalene	ug/kg	ND	200	72.1	03/03/16 15:15	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/03/16 15:15	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/03/16 15:15	
Styrene	ug/kg	ND	50.0	7.9	03/03/16 15:15	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/03/16 15:15	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/03/16 15:15	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/03/16 15:15	
Toluene	ug/kg	ND	50.0	9.6	03/03/16 15:15	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/03/16 15:15	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	19.4	03/03/16 15:15	
Trichloroethene	ug/kg	ND	50.0	12.1	03/03/16 15:15	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/03/16 15:15	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/03/16 15:15	
Xylene (Total)	ug/kg	ND	150	29.9	03/03/16 15:15	
1,2-Dichloroethane-d4 (S)	%.	104	75-129		03/03/16 15:15	
4-Bromofluorobenzene (S)	%.	94	75-125		03/03/16 15:15	
Toluene-d8 (S)	%.	99	75-125		03/03/16 15:15	

LABORATORY CONTROL SAMPLE: 2202977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	921	92	71-127	
1,1,1-Trichloroethane	ug/kg	1000	888	89	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	837	84	50-138	
1,1,2-Trichloroethane	ug/kg	1000	958	96	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	948	95	53-144	
1,1-Dichloroethane	ug/kg	1000	1000	100	61-134	
1,1-Dichloroethene	ug/kg	1000	876	88	57-135	
1,1-Dichloropropene	ug/kg	1000	862	86	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	880	88	32-150	
1,2,3-Trichloropropane	ug/kg	1000	902	90	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	859	86	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2202977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	828	83	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2010	80	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	853	85	69-130	
1,2-Dichlorobenzene	ug/kg	1000	847	85	72-125	
1,2-Dichloroethane	ug/kg	1000	941	94	62-125	
1,2-Dichloropropane	ug/kg	1000	882	88	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	848	85	71-129	
1,3-Dichlorobenzene	ug/kg	1000	839	84	72-126	
1,3-Dichloropropane	ug/kg	1000	858	86	70-125	
1,4-Dichlorobenzene	ug/kg	1000	855	85	70-126	
2,2-Dichloropropane	ug/kg	1000	890	89	48-134	
2-Butanone (MEK)	ug/kg	5000	4230	85	38-149	
2-Chlorotoluene	ug/kg	1000	829	83	71-129	
4-Chlorotoluene	ug/kg	1000	841	84	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5360	107	52-145	
Acetone	ug/kg	5000	4630	93	65-142	
Allyl chloride	ug/kg	1000	1050	105	54-125	
Benzene	ug/kg	1000	837	84	64-125	
Bromobenzene	ug/kg	1000	864	86	70-125	
Bromochloromethane	ug/kg	1000	870	87	68-125	
Bromodichloromethane	ug/kg	1000	893	89	67-125	
Bromoform	ug/kg	1000	930	93	56-127	
Bromomethane	ug/kg	1000	827	83	34-137	
Carbon tetrachloride	ug/kg	1000	840	84	58-138	
Chlorobenzene	ug/kg	1000	884	88	72-125	
Chloroethane	ug/kg	1000	1170	117	39-148	
Chloroform	ug/kg	1000	891	89	67-125	
Chloromethane	ug/kg	1000	827	83	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	795	79	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	910	91	62-127	
Dibromochloromethane	ug/kg	1000	902	90	67-125	
Dibromomethane	ug/kg	1000	875	87	63-129	
Dichlorodifluoromethane	ug/kg	1000	503	50	34-139	
Dichlorofluoromethane	ug/kg	1000	1340	134	36-144	CH
Diethyl ether (Ethyl ether)	ug/kg	1000	1040	104	51-125	
Ethylbenzene	ug/kg	1000	883	88	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	875	88	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	916	92	75-127	
Methyl-tert-butyl ether	ug/kg	1000	952	95	61-125	
Methylene Chloride	ug/kg	1000	981	98	60-126	
n-Butylbenzene	ug/kg	1000	869	87	67-125	
n-Propylbenzene	ug/kg	1000	904	90	72-133	
Naphthalene	ug/kg	1000	849	85	35-147	
p-Isopropyltoluene	ug/kg	1000	888	89	69-127	
sec-Butylbenzene	ug/kg	1000	900	90	70-127	
Styrene	ug/kg	1000	883	88	73-125	
tert-Butylbenzene	ug/kg	1000	907	91	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

LABORATORY CONTROL SAMPLE: 2202977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	897	90	66-135	
Tetrahydrofuran	ug/kg	10000	6840	68	66-145	
Toluene	ug/kg	1000	858	86	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	907	91	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	910	91	67-125	
Trichloroethene	ug/kg	1000	841	84	62-141	
Trichlorofluoromethane	ug/kg	1000	1190	119	38-150	
Vinyl chloride	ug/kg	1000	714	71	57-131	
Xylene (Total)	ug/kg	3000	2700	90	73-128	
1,2-Dichloroethane-d4 (S)	%.			103	75-129	
4-Bromofluorobenzene (S)	%.			92	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2203096 2203097

Parameter	Units	10340294004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	<10.5	1100	1090	1000	921	91	85	59-135	9	30	
1,1,1-Trichloroethane	ug/kg	<10.7	1100	1090	983	890	89	82	51-137	10	30	
1,1,2,2-Tetrachloroethane	ug/kg	<10.5	1100	1090	911	903	83	83	40-149	1	30	
1,1,2-Trichloroethane	ug/kg	<15.0	1100	1090	1020	934	93	86	54-144	9	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<12.9	1100	1090	997	931	90	86	41-150	7	30	
1,1-Dichloroethane	ug/kg	<10.5	1100	1090	1110	1040	101	96	53-131	7	30	
1,1-Dichloroethene	ug/kg	<12.5	1100	1090	953	883	86	81	41-133	8	30	
1,1-Dichloropropene	ug/kg	<11.0	1100	1090	896	829	81	76	50-139	8	30	
1,2,3-Trichlorobenzene	ug/kg	<21.3	1100	1090	970	915	88	84	52-150	6	30	
1,2,3-Trichloropropane	ug/kg	<15.1	1100	1090	1040	868	95	80	61-137	18	30	
1,2,4-Trichlorobenzene	ug/kg	<10	1100	1090	958	882	87	81	52-142	8	30	
1,2,4-Trimethylbenzene	ug/kg	<11.0	1100	1090	905	841	82	77	56-142	7	30	
1,2-Dibromo-3-chloropropane	ug/kg	<42.4	2760	2720	2050	2050	74	76	47-143	0	30	
1,2-Dibromoethane (EDB)	ug/kg	<9.3	1100	1090	887	860	80	79	57-136	3	30	
1,2-Dichlorobenzene	ug/kg	<13.3	1100	1090	914	852	83	78	59-136	7	30	
1,2-Dichloroethane	ug/kg	<12.3	1100	1090	922	884	84	81	52-133	4	30	
1,2-Dichloropropane	ug/kg	<11.2	1100	1090	972	883	88	81	62-129	10	30	
1,3,5-Trimethylbenzene	ug/kg	<12.3	1100	1090	928	820	84	76	54-143	12	30	
1,3-Dichlorobenzene	ug/kg	<13.4	1100	1090	885	839	80	77	60-137	5	30	
1,3-Dichloropropane	ug/kg	<8.6	1100	1090	896	858	81	79	57-138	4	30	
1,4-Dichlorobenzene	ug/kg	<11.6	1100	1090	896	857	81	79	51-132	4	30	
2,2-Dichloropropane	ug/kg	<22.1	1100	1090	927	869	84	80	50-134	6	30	
2-Butanone (MEK)	ug/kg	<91.0	5510	5430	4460	4420	81	81	46-125	1	30	
2-Chlorotoluene	ug/kg	<11.3	1100	1090	894	839	81	77	60-141	6	30	
4-Chlorotoluene	ug/kg	<10.3	1100	1090	919	862	83	79	65-135	6	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<69.7	5510	5430	5440	5270	99	97	47-146	3	30	
Acetone	ug/kg	<246	5510	5430	5280	4590	96	85	45-148	14	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2203096 2203097

Parameter	Units	10340294004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/kg	<13.4	1100	1090	1070	1020	97	94	50-135	4	30	
Benzene	ug/kg	<11.6	1100	1090	879	828	80	76	41-134	6	30	
Bromobenzene	ug/kg	<13.3	1100	1090	938	874	85	80	59-134	7	30	
Bromochloromethane	ug/kg	<10.5	1100	1090	891	846	81	78	56-127	5	30	
Bromodichloromethane	ug/kg	<9.8	1100	1090	944	883	86	81	55-136	7	30	
Bromoform	ug/kg	<13.0	1100	1090	947	890	86	82	51-139	6	30	
Bromomethane	ug/kg	<96.2	1100	1090	962	1000	86	91	35-148	4	30	
Carbon tetrachloride	ug/kg	<13.3	1100	1090	855	799	78	73	50-140	7	30	
Chlorobenzene	ug/kg	<8.9	1100	1090	975	895	88	82	59-133	9	30	
Chloroethane	ug/kg	<26.2	1100	1090	1310	1430	118	131	30-150	9	30	
Chloroform	ug/kg	<9.2	1100	1090	924	869	84	80	58-128	6	30	
Chloromethane	ug/kg	<11.1	1100	1090	951	1010	86	93	38-125	6	30	
cis-1,2-Dichloroethene	ug/kg	<19.5	1100	1090	885	821	80	76	59-125	8	30	
cis-1,3-Dichloropropene	ug/kg	<5.7	1100	1090	913	865	83	80	57-133	5	30	
Dibromochloromethane	ug/kg	<8.5	1100	1090	936	858	85	79	54-141	9	30	
Dibromomethane	ug/kg	<12.9	1100	1090	960	948	87	87	53-134	1	30	
Dichlorodifluoromethane	ug/kg	<13.5	1100	1090	546	615	50	57	30-125	12	30	
Dichlorofluoromethane	ug/kg	<51.5	1100	1090	1480	1780	134	163	30-150	18	30	CH,M1
Diethyl ether (Ethyl ether)	ug/kg	<17.9	1100	1090	972	963	88	89	46-137	1	30	
Ethylbenzene	ug/kg	<8.8	1100	1090	956	885	87	81	56-141	8	30	
Hexachloro-1,3-butadiene	ug/kg	<23.3	1100	1090	1340	1190	121	110	45-150	11	30	
Isopropylbenzene (Cumene)	ug/kg	<10	1100	1090	1020	929	92	86	48-141	9	30	
Methyl-tert-butyl ether	ug/kg	<14.8	1100	1090	1000	935	91	86	53-133	7	30	
Methylene Chloride	ug/kg	53.0J	1100	1090	950	1000	81	87	42-135	5	30	
n-Butylbenzene	ug/kg	<10.3	1100	1090	1010	926	92	85	52-140	9	30	
n-Propylbenzene	ug/kg	<13.8	1100	1090	959	898	87	83	57-142	6	30	
Naphthalene	ug/kg	<79.0	1100	1090	913	879	83	81	41-150	4	30	
p-Isopropyltoluene	ug/kg	53.9J	1100	1090	1180	952	102	83	54-139	21	30	
sec-Butylbenzene	ug/kg	<11.2	1100	1090	997	907	90	84	30-150	9	30	
Styrene	ug/kg	<8.7	1100	1090	937	865	85	80	53-137	8	30	
tert-Butylbenzene	ug/kg	<14.7	1100	1090	988	919	90	85	59-138	7	30	
Tetrachloroethene	ug/kg	<11.3	1100	1090	969	883	88	81	53-138	9	30	
Tetrahydrofuran	ug/kg	<86.7	11000	10900	7510	6540	68	60	50-145	14	30	
Toluene	ug/kg	<10.5	1100	1090	919	872	83	80	55-134	5	30	
trans-1,2-Dichloroethene	ug/kg	<9.0	1100	1090	998	920	91	85	44-135	8	30	
trans-1,3-Dichloropropene	ug/kg	<21.3	1100	1090	953	903	86	83	59-139	5	30	
Trichloroethene	ug/kg	<13.3	1100	1090	953	867	86	80	52-143	9	30	
Trichlorofluoromethane	ug/kg	<37.9	1100	1090	1210	1400	110	128	30-150	14	30	
Vinyl chloride	ug/kg	<9.9	1100	1090	834	951	76	87	36-127	13	30	
Xylene (Total)	ug/kg	<32.8	3310	3260	2910	2720	88	84	56-137	7	30	
1,2-Dichloroethane-d4 (S)	%.						98	103	75-129			
4-Bromofluorobenzene (S)	%.						92	94	75-125			
Toluene-d8 (S)	%.						99	100	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALIFIERS

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/34777

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP-Solvent Plume
Pace Project No.: 10339856

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10339856001	**B32-S-77**	ASTM D2974	MPRP/61690		
10339856002	**B32-S-38**	ASTM D2974	MPRP/61690		
10339856003	**B32-S-94**	ASTM D2974	MPRP/61690		
10339856004	**DUP-1**	ASTM D2974	MPRP/61690		
10339856005	**B29-S-53**	ASTM D2974	MPRP/61690		
10339856006	**DUP-2**	ASTM D2974	MPRP/61690		
10339856007	**B29-S-34**	ASTM D2974	MPRP/61690		
10339856008	**B29-S-80**	ASTM D2974	MPRP/61690		
10339856009	**B30-S-98**	ASTM D2974	MPRP/61690		
10339856010	**B30-S-36**	ASTM D2974	MPRP/61712		
10339856011	**B30-S-45**	ASTM D2974	MPRP/61712		
10339856001	**B32-S-77**	EPA 5035/5030B	MSV/34766	EPA 8260B	MSV/34777
10339856002	**B32-S-38**	EPA 5035/5030B	MSV/34766	EPA 8260B	MSV/34777
10339856003	**B32-S-94**	EPA 5035/5030B	MSV/34765	EPA 8260B	MSV/34786
10339856004	**DUP-1**	EPA 5035/5030B	MSV/34765	EPA 8260B	MSV/34786
10339856005	**B29-S-53**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856006	**DUP-2**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856007	**B29-S-34**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856008	**B29-S-80**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856009	**B30-S-98**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856010	**B30-S-36**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792
10339856011	**B30-S-45**	EPA 5035/5030B	MSV/34798	EPA 8260B	MSV/34804
10339856012	**TRIP BLANK**	EPA 5035/5030B	MSV/34787	EPA 8260B	MSV/34792

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

L0339856

Page: 1 of 2

2022556

Section A Required Client Information:

Company: AECOM
Address: 800 LA SALLE AVE MINNEAPOLIS, MN 55402
Email To: Tony.Coryell@AECOM
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: NORMAL

Section B Required Project Information:

Report To: Tony Coryell
Copy To: BENJAMIN.KLAUS@AECOM.COM
Purchase Order No.:
Project Name: SLP - SOLVENT PLUME
Project Number: 60482513

Section C Invoice Information:

Attention: Tony Coryell
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: CARA DAVY
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER

Site Location STATE: MN

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC (8260)	MOISTURE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B32-S-77					2/22/16	1445		2							2			2	1		001
2	B32-S-38					2/22/16	1500		2							2			2	1		002
3	B32-S-94					2/22/16	1515		2							2			2	1		003
4	B32-S-94-MS					2/22/16	1515		2							2			2	1		003
5	B32-S-94-MSD					2/22/16	1515		2							2			2	1		003
6	DUP-1					2/22/16	1500		2							2			2	1		004
7	B29-S-53					2/23/16	1530		2							2			2	1		005
8	DUP-2					2/23/16	1530		2							2			2	1		006
9	B29-S-34					2/23/16	1630		2							2			2	1		007
10	B29-S-80					2/23/16	1700		2							2			2	1		008
11	B30-S-98					2/24/16	1100		2							2			2	1		009
12	B30-S-36					2/24/16	1115		2							2			2	1		010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MELISSA MELLINSON / AECOM	2/26/16	1254	[signature]	2/26/16	254	4.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: BEN KLAUS
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/26/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

L0339856

Page: 2 of 2

2022557

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM	Report To: Tony Coryell	Attention: Tony Coryell
Address: 800 La Salle	Copy To: Benjamin.Klaus@AECOM.COM	Company Name: AECOM
Minneapolis, MN 55402		Address:
Email To: Tony.Coryell@AECOM.COM	Purchase Order No.:	Pace Quote Reference:
Phone: 612-376-2000 Fax:	Project Name: SLP - Solvent Plume	Pace Project Manager: Carol Davy
Requested Due Date/TAT: Normal	Project Number: 60482513	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC (8260)	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	~~B-30-S~~					~~2/24/16~~																
2	B30-S-45					2/24/16	1445		2							2			2	1		011
3	TRIP BLANK					2/22/16	—		1							1			1			012
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Melissa Meeuwsen/AECOM	2/26/16	1254	[signature]	2/26/16	1254	4.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Klaus

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 2/26/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 10339856

10339856

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ 151401164 ☐ B88A912167504 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.1 **Cooler Temp Corrected (°C):** 4.1 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** 2-26-16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: SL				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 113015-3				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: [signature] **Date:** 2/26/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

March 10, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10340392001	**B31-S-33**	Solid	02/29/16 11:05	03/03/16 15:28
10340392002	**B31-S-47**	Solid	02/29/16 11:10	03/03/16 15:28
10340392003	**B31-S-52**	Solid	02/29/16 11:15	03/03/16 15:28
10340392004	**B31-S-53**	Solid	02/29/16 11:20	03/03/16 15:28
10340392005	**B31-S-83**	Solid	02/29/16 12:15	03/03/16 15:28
10340392006	**B22-S-32**	Solid	03/01/16 13:15	03/03/16 15:28
10340392007	**B22-S-79**	Solid	03/01/16 14:15	03/03/16 15:28
10340392008	**B22-S-89**	Solid	03/01/16 14:40	03/03/16 15:28
10340392009	**B21-S-30**	Solid	03/02/16 12:40	03/03/16 15:28
10340392010	**B21-S-47**	Solid	03/02/16 12:45	03/03/16 15:28
10340392011	**B21-S-53**	Solid	03/02/16 12:50	03/03/16 15:28
10340392012	**B21-S-78**	Solid	03/02/16 12:55	03/03/16 15:28
10340392013	**B21-S-93**	Solid	03/02/16 13:05	03/03/16 15:28
10340392014	**TB-2**	Solid	02/29/16 07:00	03/03/16 15:28

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10340392001	**B31-S-33**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392002	**B31-S-47**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392003	**B31-S-52**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392004	**B31-S-53**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392005	**B31-S-83**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392006	**B22-S-32**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392007	**B22-S-79**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392008	**B22-S-89**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392009	**B21-S-30**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392010	**B21-S-47**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392011	**B21-S-53**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392012	**B21-S-78**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392013	**B21-S-93**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10340392014	**TB-2**	EPA 8260B	MRB	70

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10340392001	**B31-S-33**					
ASTM D2974	Percent Moisture	1.4	%	0.10	03/08/16 09:43	
10340392002	**B31-S-47**					
ASTM D2974	Percent Moisture	14.5	%	0.10	03/08/16 09:43	
EPA 8260B	Tetrachloroethene	729	ug/kg	58.3	03/07/16 18:41	
10340392003	**B31-S-52**					
ASTM D2974	Percent Moisture	13.6	%	0.10	03/08/16 09:43	
EPA 8260B	cis-1,2-Dichloroethene	88.0	ug/kg	58.3	03/07/16 18:59	
EPA 8260B	Tetrachloroethene	1300	ug/kg	58.3	03/07/16 18:59	
EPA 8260B	Trichloroethene	180	ug/kg	58.3	03/07/16 18:59	
10340392004	**B31-S-53**					
ASTM D2974	Percent Moisture	14.5	%	0.10	03/08/16 09:44	
EPA 8260B	cis-1,2-Dichloroethene	99.9	ug/kg	56.9	03/07/16 19:17	
EPA 8260B	Tetrachloroethene	1320	ug/kg	56.9	03/07/16 19:17	
EPA 8260B	Trichloroethene	175	ug/kg	56.9	03/07/16 19:17	
10340392005	**B31-S-83**					
ASTM D2974	Percent Moisture	11.4	%	0.10	03/08/16 09:44	
EPA 8260B	cis-1,2-Dichloroethene	133	ug/kg	58.2	03/07/16 19:35	
10340392006	**B22-S-32**					
ASTM D2974	Percent Moisture	6.3	%	0.10	03/08/16 09:44	
10340392007	**B22-S-79**					
ASTM D2974	Percent Moisture	13.3	%	0.10	03/08/16 09:44	
10340392008	**B22-S-89**					
ASTM D2974	Percent Moisture	15.1	%	0.10	03/08/16 09:45	
10340392009	**B21-S-30**					
ASTM D2974	Percent Moisture	6.5	%	0.10	03/08/16 09:45	
10340392010	**B21-S-47**					
ASTM D2974	Percent Moisture	11.0	%	0.10	03/08/16 09:45	
10340392011	**B21-S-53**					
ASTM D2974	Percent Moisture	17.3	%	0.10	03/08/16 09:46	
10340392012	**B21-S-78**					
ASTM D2974	Percent Moisture	9.8	%	0.10	03/08/16 09:46	
10340392013	**B21-S-93**					
ASTM D2974	Percent Moisture	9.8	%	0.10	03/08/16 09:46	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 10, 2016

General Information:
14 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34820

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2204735)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MS (Lab ID: 2204736)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

QC Batch: MSV/34840

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2205672)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MS (Lab ID: 2205673)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MSD (Lab ID: 2205674)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 10, 2016

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/34820

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 2204735)
  - Dichlorofluoromethane

QC Batch: MSV/34840

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 2205672)
  - Chloroethane
  - Dichlorofluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34820

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340528001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2204736)
  - Dichlorofluoromethane

QC Batch: MSV/34840

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10340392010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2205674)
  - Dichlorofluoromethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-33 **Lab ID: 10340392001** Collected: 02/29/16 11:05 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**1.4**	%	0.10	0.10	1		03/08/16 09:43		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1020	229	1	03/07/16 08:58	03/07/16 18:23	67-64-1	
Allyl chloride	ND	ug/kg	205	12.5	1	03/07/16 08:58	03/07/16 18:23	107-05-1	
Benzene	ND	ug/kg	20.5	10.8	1	03/07/16 08:58	03/07/16 18:23	71-43-2	
Bromobenzene	ND	ug/kg	51.2	12.4	1	03/07/16 08:58	03/07/16 18:23	108-86-1	
Bromochloromethane	ND	ug/kg	51.2	9.8	1	03/07/16 08:58	03/07/16 18:23	74-97-5	
Bromodichloromethane	ND	ug/kg	51.2	9.1	1	03/07/16 08:58	03/07/16 18:23	75-27-4	
Bromoform	ND	ug/kg	512	12.2	1	03/07/16 08:58	03/07/16 18:23	75-25-2	
Bromomethane	ND	ug/kg	512	89.8	1	03/07/16 08:58	03/07/16 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	256	84.9	1	03/07/16 08:58	03/07/16 18:23	78-93-3	
n-Butylbenzene	ND	ug/kg	51.2	9.6	1	03/07/16 08:58	03/07/16 18:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.2	10.4	1	03/07/16 08:58	03/07/16 18:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.2	13.7	1	03/07/16 08:58	03/07/16 18:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.2	12.4	1	03/07/16 08:58	03/07/16 18:23	56-23-5	
Chlorobenzene	ND	ug/kg	51.2	8.3	1	03/07/16 08:58	03/07/16 18:23	108-90-7	
Chloroethane	ND	ug/kg	512	24.5	1	03/07/16 08:58	03/07/16 18:23	75-00-3	
Chloroform	ND	ug/kg	51.2	8.6	1	03/07/16 08:58	03/07/16 18:23	67-66-3	
Chloromethane	ND	ug/kg	205	10.3	1	03/07/16 08:58	03/07/16 18:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.2	10.5	1	03/07/16 08:58	03/07/16 18:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.2	9.6	1	03/07/16 08:58	03/07/16 18:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	512	39.6	1	03/07/16 08:58	03/07/16 18:23	96-12-8	
Dibromochloromethane	ND	ug/kg	51.2	7.9	1	03/07/16 08:58	03/07/16 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.2	8.7	1	03/07/16 08:58	03/07/16 18:23	106-93-4	
Dibromomethane	ND	ug/kg	51.2	12.1	1	03/07/16 08:58	03/07/16 18:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.2	12.4	1	03/07/16 08:58	03/07/16 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.2	12.5	1	03/07/16 08:58	03/07/16 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.2	10.8	1	03/07/16 08:58	03/07/16 18:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	205	12.6	1	03/07/16 08:58	03/07/16 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.2	9.8	1	03/07/16 08:58	03/07/16 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.2	11.5	1	03/07/16 08:58	03/07/16 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	51.2	11.7	1	03/07/16 08:58	03/07/16 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.2	18.2	1	03/07/16 08:58	03/07/16 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.2	8.4	1	03/07/16 08:58	03/07/16 18:23	156-60-5	
Dichlorofluoromethane	ND	ug/kg	512	48.1	1	03/07/16 08:58	03/07/16 18:23	75-43-4	
1,2-Dichloropropane	ND	ug/kg	51.2	10.4	1	03/07/16 08:58	03/07/16 18:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.2	8.0	1	03/07/16 08:58	03/07/16 18:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	205	20.7	1	03/07/16 08:58	03/07/16 18:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	51.2	10.2	1	03/07/16 08:58	03/07/16 18:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.2	5.3	1	03/07/16 08:58	03/07/16 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.2	19.8	1	03/07/16 08:58	03/07/16 18:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	205	16.7	1	03/07/16 08:58	03/07/16 18:23	60-29-7	
Ethylbenzene	ND	ug/kg	51.2	8.2	1	03/07/16 08:58	03/07/16 18:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	256	21.8	1	03/07/16 08:58	03/07/16 18:23	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-33 **Lab ID: 10340392001** Collected: 02/29/16 11:05 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.2	9.3	1	03/07/16 08:58	03/07/16 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	51.2	8.9	1	03/07/16 08:58	03/07/16 18:23	99-87-6	
Methylene Chloride	ND	ug/kg	205	15.2	1	03/07/16 08:58	03/07/16 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	256	65.1	1	03/07/16 08:58	03/07/16 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.2	13.8	1	03/07/16 08:58	03/07/16 18:23	1634-04-4	
Naphthalene	ND	ug/kg	205	73.8	1	03/07/16 08:58	03/07/16 18:23	91-20-3	
n-Propylbenzene	ND	ug/kg	51.2	12.9	1	03/07/16 08:58	03/07/16 18:23	103-65-1	
Styrene	ND	ug/kg	51.2	8.1	1	03/07/16 08:58	03/07/16 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.2	9.8	1	03/07/16 08:58	03/07/16 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.2	9.8	1	03/07/16 08:58	03/07/16 18:23	79-34-5	
Tetrachloroethene	ND	ug/kg	51.2	10.5	1	03/07/16 08:58	03/07/16 18:23	127-18-4	
Tetrahydrofuran	ND	ug/kg	2050	80.9	1	03/07/16 08:58	03/07/16 18:23	109-99-9	
Toluene	ND	ug/kg	51.2	9.8	1	03/07/16 08:58	03/07/16 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.2	19.8	1	03/07/16 08:58	03/07/16 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.2	9.3	1	03/07/16 08:58	03/07/16 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	51.2	10	1	03/07/16 08:58	03/07/16 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.2	14.0	1	03/07/16 08:58	03/07/16 18:23	79-00-5	
Trichloroethene	ND	ug/kg	51.2	12.4	1	03/07/16 08:58	03/07/16 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	205	35.4	1	03/07/16 08:58	03/07/16 18:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	205	14.1	1	03/07/16 08:58	03/07/16 18:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	205	12.1	1	03/07/16 08:58	03/07/16 18:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.2	10.2	1	03/07/16 08:58	03/07/16 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.2	11.5	1	03/07/16 08:58	03/07/16 18:23	108-67-8	
Vinyl chloride	ND	ug/kg	51.2	9.2	1	03/07/16 08:58	03/07/16 18:23	75-01-4	
Xylene (Total)	ND	ug/kg	153	30.6	1	03/07/16 08:58	03/07/16 18:23	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/07/16 08:58	03/07/16 18:23	17060-07-0	
Toluene-d8 (S)	93	%.	75-125		1	03/07/16 08:58	03/07/16 18:23	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	75-125		1	03/07/16 08:58	03/07/16 18:23	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-47 **Lab ID: 10340392002** Collected: 02/29/16 11:10 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.5**	%	0.10	0.10	1		03/08/16 09:43		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	261	1	03/07/16 08:58	03/07/16 18:41	67-64-1	
Allyl chloride	ND	ug/kg	233	14.2	1	03/07/16 08:58	03/07/16 18:41	107-05-1	
Benzene	ND	ug/kg	23.3	12.4	1	03/07/16 08:58	03/07/16 18:41	71-43-2	
Bromobenzene	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:41	108-86-1	
Bromochloromethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:41	74-97-5	
Bromodichloromethane	ND	ug/kg	58.3	10.4	1	03/07/16 08:58	03/07/16 18:41	75-27-4	
Bromoform	ND	ug/kg	583	13.9	1	03/07/16 08:58	03/07/16 18:41	75-25-2	
Bromomethane	ND	ug/kg	583	102	1	03/07/16 08:58	03/07/16 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	96.9	1	03/07/16 08:58	03/07/16 18:41	78-93-3	
n-Butylbenzene	ND	ug/kg	58.3	11.0	1	03/07/16 08:58	03/07/16 18:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.3	11.9	1	03/07/16 08:58	03/07/16 18:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.3	15.6	1	03/07/16 08:58	03/07/16 18:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:41	56-23-5	
Chlorobenzene	ND	ug/kg	58.3	9.5	1	03/07/16 08:58	03/07/16 18:41	108-90-7	
Chloroethane	ND	ug/kg	583	27.9	1	03/07/16 08:58	03/07/16 18:41	75-00-3	
Chloroform	ND	ug/kg	58.3	9.8	1	03/07/16 08:58	03/07/16 18:41	67-66-3	
Chloromethane	ND	ug/kg	233	11.8	1	03/07/16 08:58	03/07/16 18:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.3	12.0	1	03/07/16 08:58	03/07/16 18:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.3	11.0	1	03/07/16 08:58	03/07/16 18:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	583	45.2	1	03/07/16 08:58	03/07/16 18:41	96-12-8	
Dibromochloromethane	ND	ug/kg	58.3	9.0	1	03/07/16 08:58	03/07/16 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.3	9.9	1	03/07/16 08:58	03/07/16 18:41	106-93-4	
Dibromomethane	ND	ug/kg	58.3	13.8	1	03/07/16 08:58	03/07/16 18:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.3	14.2	1	03/07/16 08:58	03/07/16 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.3	12.4	1	03/07/16 08:58	03/07/16 18:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	14.4	1	03/07/16 08:58	03/07/16 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.3	13.1	1	03/07/16 08:58	03/07/16 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.3	13.3	1	03/07/16 08:58	03/07/16 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.3	20.8	1	03/07/16 08:58	03/07/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.3	9.6	1	03/07/16 08:58	03/07/16 18:41	156-60-5	
Dichlorofluoromethane	ND	ug/kg	583	54.8	1	03/07/16 08:58	03/07/16 18:41	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.3	11.9	1	03/07/16 08:58	03/07/16 18:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.3	9.1	1	03/07/16 08:58	03/07/16 18:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	23.6	1	03/07/16 08:58	03/07/16 18:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.3	11.7	1	03/07/16 08:58	03/07/16 18:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.3	6.1	1	03/07/16 08:58	03/07/16 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.3	22.6	1	03/07/16 08:58	03/07/16 18:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	19.0	1	03/07/16 08:58	03/07/16 18:41	60-29-7	
Ethylbenzene	ND	ug/kg	58.3	9.3	1	03/07/16 08:58	03/07/16 18:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/07/16 08:58	03/07/16 18:41	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-47 **Lab ID: 10340392002** Collected: 02/29/16 11:10 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.3	10.6	1	03/07/16 08:58	03/07/16 18:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.3	10.2	1	03/07/16 08:58	03/07/16 18:41	99-87-6	
Methylene Chloride	ND	ug/kg	233	17.4	1	03/07/16 08:58	03/07/16 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.2	1	03/07/16 08:58	03/07/16 18:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.3	15.8	1	03/07/16 08:58	03/07/16 18:41	1634-04-4	
Naphthalene	ND	ug/kg	233	84.1	1	03/07/16 08:58	03/07/16 18:41	91-20-3	
n-Propylbenzene	ND	ug/kg	58.3	14.7	1	03/07/16 08:58	03/07/16 18:41	103-65-1	
Styrene	ND	ug/kg	58.3	9.3	1	03/07/16 08:58	03/07/16 18:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:41	79-34-5	
Tetrachloroethene	**729**	ug/kg	58.3	12.0	1	03/07/16 08:58	03/07/16 18:41	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	92.3	1	03/07/16 08:58	03/07/16 18:41	109-99-9	
Toluene	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.3	22.6	1	03/07/16 08:58	03/07/16 18:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.3	10.6	1	03/07/16 08:58	03/07/16 18:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.3	11.4	1	03/07/16 08:58	03/07/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.3	16.0	1	03/07/16 08:58	03/07/16 18:41	79-00-5	
Trichloroethene	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	40.4	1	03/07/16 08:58	03/07/16 18:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	16.1	1	03/07/16 08:58	03/07/16 18:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	13.8	1	03/07/16 08:58	03/07/16 18:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.3	11.7	1	03/07/16 08:58	03/07/16 18:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.3	13.1	1	03/07/16 08:58	03/07/16 18:41	108-67-8	
Vinyl chloride	ND	ug/kg	58.3	10.5	1	03/07/16 08:58	03/07/16 18:41	75-01-4	
Xylene (Total)	ND	ug/kg	175	34.9	1	03/07/16 08:58	03/07/16 18:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/07/16 08:58	03/07/16 18:41	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/07/16 08:58	03/07/16 18:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/07/16 08:58	03/07/16 18:41	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-52 **Lab ID: 10340392003** Collected: 02/29/16 11:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.6**	%	0.10	0.10	1		03/08/16 09:43		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	261	1	03/07/16 08:58	03/07/16 18:59	67-64-1	
Allyl chloride	ND	ug/kg	233	14.2	1	03/07/16 08:58	03/07/16 18:59	107-05-1	
Benzene	ND	ug/kg	23.3	12.4	1	03/07/16 08:58	03/07/16 18:59	71-43-2	
Bromobenzene	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:59	108-86-1	
Bromochloromethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:59	74-97-5	
Bromodichloromethane	ND	ug/kg	58.3	10.4	1	03/07/16 08:58	03/07/16 18:59	75-27-4	
Bromoform	ND	ug/kg	583	13.9	1	03/07/16 08:58	03/07/16 18:59	75-25-2	
Bromomethane	ND	ug/kg	583	102	1	03/07/16 08:58	03/07/16 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	96.8	1	03/07/16 08:58	03/07/16 18:59	78-93-3	
n-Butylbenzene	ND	ug/kg	58.3	11.0	1	03/07/16 08:58	03/07/16 18:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.3	11.9	1	03/07/16 08:58	03/07/16 18:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.3	15.6	1	03/07/16 08:58	03/07/16 18:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:59	56-23-5	
Chlorobenzene	ND	ug/kg	58.3	9.5	1	03/07/16 08:58	03/07/16 18:59	108-90-7	
Chloroethane	ND	ug/kg	583	27.9	1	03/07/16 08:58	03/07/16 18:59	75-00-3	
Chloroform	ND	ug/kg	58.3	9.8	1	03/07/16 08:58	03/07/16 18:59	67-66-3	
Chloromethane	ND	ug/kg	233	11.8	1	03/07/16 08:58	03/07/16 18:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.3	12.0	1	03/07/16 08:58	03/07/16 18:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.3	11.0	1	03/07/16 08:58	03/07/16 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	583	45.1	1	03/07/16 08:58	03/07/16 18:59	96-12-8	
Dibromochloromethane	ND	ug/kg	58.3	9.0	1	03/07/16 08:58	03/07/16 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.3	9.9	1	03/07/16 08:58	03/07/16 18:59	106-93-4	
Dibromomethane	ND	ug/kg	58.3	13.8	1	03/07/16 08:58	03/07/16 18:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.3	14.2	1	03/07/16 08:58	03/07/16 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.3	12.4	1	03/07/16 08:58	03/07/16 18:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	14.3	1	03/07/16 08:58	03/07/16 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.3	13.1	1	03/07/16 08:58	03/07/16 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.3	13.3	1	03/07/16 08:58	03/07/16 18:59	75-35-4	
cis-1,2-Dichloroethene	**88.0**	ug/kg	58.3	20.8	1	03/07/16 08:58	03/07/16 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.3	9.6	1	03/07/16 08:58	03/07/16 18:59	156-60-5	
Dichlorofluoromethane	ND	ug/kg	583	54.8	1	03/07/16 08:58	03/07/16 18:59	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.3	11.9	1	03/07/16 08:58	03/07/16 18:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.3	9.1	1	03/07/16 08:58	03/07/16 18:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	23.6	1	03/07/16 08:58	03/07/16 18:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.3	11.7	1	03/07/16 08:58	03/07/16 18:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.3	6.1	1	03/07/16 08:58	03/07/16 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.3	22.6	1	03/07/16 08:58	03/07/16 18:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	19.0	1	03/07/16 08:58	03/07/16 18:59	60-29-7	
Ethylbenzene	ND	ug/kg	58.3	9.3	1	03/07/16 08:58	03/07/16 18:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.8	1	03/07/16 08:58	03/07/16 18:59	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-52 **Lab ID: 10340392003** Collected: 02/29/16 11:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.3	10.6	1	03/07/16 08:58	03/07/16 18:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.3	10.2	1	03/07/16 08:58	03/07/16 18:59	99-87-6	
Methylene Chloride	ND	ug/kg	233	17.4	1	03/07/16 08:58	03/07/16 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.2	1	03/07/16 08:58	03/07/16 18:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.3	15.7	1	03/07/16 08:58	03/07/16 18:59	1634-04-4	
Naphthalene	ND	ug/kg	233	84.1	1	03/07/16 08:58	03/07/16 18:59	91-20-3	
n-Propylbenzene	ND	ug/kg	58.3	14.7	1	03/07/16 08:58	03/07/16 18:59	103-65-1	
Styrene	ND	ug/kg	58.3	9.3	1	03/07/16 08:58	03/07/16 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:59	79-34-5	
Tetrachloroethene	**1300**	ug/kg	58.3	12.0	1	03/07/16 08:58	03/07/16 18:59	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	92.3	1	03/07/16 08:58	03/07/16 18:59	109-99-9	
Toluene	ND	ug/kg	58.3	11.2	1	03/07/16 08:58	03/07/16 18:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.3	22.6	1	03/07/16 08:58	03/07/16 18:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.3	10.6	1	03/07/16 08:58	03/07/16 18:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.3	11.3	1	03/07/16 08:58	03/07/16 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.3	16.0	1	03/07/16 08:58	03/07/16 18:59	79-00-5	
Trichloroethene	**180**	ug/kg	58.3	14.1	1	03/07/16 08:58	03/07/16 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	40.4	1	03/07/16 08:58	03/07/16 18:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	16.1	1	03/07/16 08:58	03/07/16 18:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	13.8	1	03/07/16 08:58	03/07/16 18:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.3	11.7	1	03/07/16 08:58	03/07/16 18:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.3	13.1	1	03/07/16 08:58	03/07/16 18:59	108-67-8	
Vinyl chloride	ND	ug/kg	58.3	10.5	1	03/07/16 08:58	03/07/16 18:59	75-01-4	
Xylene (Total)	ND	ug/kg	175	34.9	1	03/07/16 08:58	03/07/16 18:59	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/07/16 08:58	03/07/16 18:59	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/07/16 08:58	03/07/16 18:59	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/07/16 08:58	03/07/16 18:59	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-53 **Lab ID: 10340392004** Collected: 02/29/16 11:20 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.5**	%	0.10	0.10	1		03/08/16 09:44		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	255	1	03/07/16 08:58	03/07/16 19:17	67-64-1	
Allyl chloride	ND	ug/kg	227	13.9	1	03/07/16 08:58	03/07/16 19:17	107-05-1	
Benzene	ND	ug/kg	22.7	12.1	1	03/07/16 08:58	03/07/16 19:17	71-43-2	
Bromobenzene	ND	ug/kg	56.9	13.8	1	03/07/16 08:58	03/07/16 19:17	108-86-1	
Bromochloromethane	ND	ug/kg	56.9	10.9	1	03/07/16 08:58	03/07/16 19:17	74-97-5	
Bromodichloromethane	ND	ug/kg	56.9	10.1	1	03/07/16 08:58	03/07/16 19:17	75-27-4	
Bromoform	ND	ug/kg	569	13.5	1	03/07/16 08:58	03/07/16 19:17	75-25-2	
Bromomethane	ND	ug/kg	569	99.8	1	03/07/16 08:58	03/07/16 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	284	94.4	1	03/07/16 08:58	03/07/16 19:17	78-93-3	
n-Butylbenzene	ND	ug/kg	56.9	10.7	1	03/07/16 08:58	03/07/16 19:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.9	11.6	1	03/07/16 08:58	03/07/16 19:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.9	15.2	1	03/07/16 08:58	03/07/16 19:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.9	13.8	1	03/07/16 08:58	03/07/16 19:17	56-23-5	
Chlorobenzene	ND	ug/kg	56.9	9.2	1	03/07/16 08:58	03/07/16 19:17	108-90-7	
Chloroethane	ND	ug/kg	569	27.2	1	03/07/16 08:58	03/07/16 19:17	75-00-3	
Chloroform	ND	ug/kg	56.9	9.5	1	03/07/16 08:58	03/07/16 19:17	67-66-3	
Chloromethane	ND	ug/kg	227	11.5	1	03/07/16 08:58	03/07/16 19:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.9	11.7	1	03/07/16 08:58	03/07/16 19:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.9	10.7	1	03/07/16 08:58	03/07/16 19:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	569	44.0	1	03/07/16 08:58	03/07/16 19:17	96-12-8	
Dibromochloromethane	ND	ug/kg	56.9	8.8	1	03/07/16 08:58	03/07/16 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.9	9.6	1	03/07/16 08:58	03/07/16 19:17	106-93-4	
Dibromomethane	ND	ug/kg	56.9	13.4	1	03/07/16 08:58	03/07/16 19:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.9	13.8	1	03/07/16 08:58	03/07/16 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.9	13.9	1	03/07/16 08:58	03/07/16 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.9	12.1	1	03/07/16 08:58	03/07/16 19:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	227	14.0	1	03/07/16 08:58	03/07/16 19:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.9	10.9	1	03/07/16 08:58	03/07/16 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.9	12.7	1	03/07/16 08:58	03/07/16 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.9	13.0	1	03/07/16 08:58	03/07/16 19:17	75-35-4	
cis-1,2-Dichloroethene	**99.9**	ug/kg	56.9	20.2	1	03/07/16 08:58	03/07/16 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.9	9.3	1	03/07/16 08:58	03/07/16 19:17	156-60-5	
Dichlorofluoromethane	ND	ug/kg	569	53.4	1	03/07/16 08:58	03/07/16 19:17	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.9	11.6	1	03/07/16 08:58	03/07/16 19:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.9	8.9	1	03/07/16 08:58	03/07/16 19:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	227	23.0	1	03/07/16 08:58	03/07/16 19:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.9	11.4	1	03/07/16 08:58	03/07/16 19:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.9	5.9	1	03/07/16 08:58	03/07/16 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.9	22.1	1	03/07/16 08:58	03/07/16 19:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	227	18.5	1	03/07/16 08:58	03/07/16 19:17	60-29-7	
Ethylbenzene	ND	ug/kg	56.9	9.1	1	03/07/16 08:58	03/07/16 19:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	284	24.2	1	03/07/16 08:58	03/07/16 19:17	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-53 **Lab ID: 10340392004** Collected: 02/29/16 11:20 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.9	10.3	1	03/07/16 08:58	03/07/16 19:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.9	9.9	1	03/07/16 08:58	03/07/16 19:17	99-87-6	
Methylene Chloride	ND	ug/kg	227	16.9	1	03/07/16 08:58	03/07/16 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	284	72.3	1	03/07/16 08:58	03/07/16 19:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.9	15.4	1	03/07/16 08:58	03/07/16 19:17	1634-04-4	
Naphthalene	ND	ug/kg	227	82.0	1	03/07/16 08:58	03/07/16 19:17	91-20-3	
n-Propylbenzene	ND	ug/kg	56.9	14.3	1	03/07/16 08:58	03/07/16 19:17	103-65-1	
Styrene	ND	ug/kg	56.9	9.0	1	03/07/16 08:58	03/07/16 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.9	10.9	1	03/07/16 08:58	03/07/16 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.9	10.9	1	03/07/16 08:58	03/07/16 19:17	79-34-5	
Tetrachloroethene	**1320**	ug/kg	56.9	11.7	1	03/07/16 08:58	03/07/16 19:17	127-18-4	
Tetrahydrofuran	ND	ug/kg	2270	90.0	1	03/07/16 08:58	03/07/16 19:17	109-99-9	
Toluene	ND	ug/kg	56.9	10.9	1	03/07/16 08:58	03/07/16 19:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.9	22.1	1	03/07/16 08:58	03/07/16 19:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.9	10.3	1	03/07/16 08:58	03/07/16 19:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.9	11.1	1	03/07/16 08:58	03/07/16 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.9	15.6	1	03/07/16 08:58	03/07/16 19:17	79-00-5	
Trichloroethene	**175**	ug/kg	56.9	13.8	1	03/07/16 08:58	03/07/16 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	227	39.3	1	03/07/16 08:58	03/07/16 19:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	227	15.7	1	03/07/16 08:58	03/07/16 19:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	227	13.4	1	03/07/16 08:58	03/07/16 19:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.9	11.4	1	03/07/16 08:58	03/07/16 19:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.9	12.7	1	03/07/16 08:58	03/07/16 19:17	108-67-8	
Vinyl chloride	ND	ug/kg	56.9	10.2	1	03/07/16 08:58	03/07/16 19:17	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.0	1	03/07/16 08:58	03/07/16 19:17	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-129		1	03/07/16 08:58	03/07/16 19:17	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/07/16 08:58	03/07/16 19:17	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	75-125		1	03/07/16 08:58	03/07/16 19:17	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-83 **Lab ID: 10340392005** Collected: 02/29/16 12:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**11.4**	%	0.10	0.10	1		03/08/16 09:44		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1160	261	1	03/07/16 08:58	03/07/16 19:35	67-64-1	
Allyl chloride	ND	ug/kg	233	14.2	1	03/07/16 08:58	03/07/16 19:35	107-05-1	
Benzene	ND	ug/kg	23.3	12.3	1	03/07/16 08:58	03/07/16 19:35	71-43-2	
Bromobenzene	ND	ug/kg	58.2	14.1	1	03/07/16 08:58	03/07/16 19:35	108-86-1	
Bromochloromethane	ND	ug/kg	58.2	11.2	1	03/07/16 08:58	03/07/16 19:35	74-97-5	
Bromodichloromethane	ND	ug/kg	58.2	10.4	1	03/07/16 08:58	03/07/16 19:35	75-27-4	
Bromoform	ND	ug/kg	582	13.9	1	03/07/16 08:58	03/07/16 19:35	75-25-2	
Bromomethane	ND	ug/kg	582	102	1	03/07/16 08:58	03/07/16 19:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	291	96.7	1	03/07/16 08:58	03/07/16 19:35	78-93-3	
n-Butylbenzene	ND	ug/kg	58.2	10.9	1	03/07/16 08:58	03/07/16 19:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.2	11.9	1	03/07/16 08:58	03/07/16 19:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.2	15.6	1	03/07/16 08:58	03/07/16 19:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.2	14.1	1	03/07/16 08:58	03/07/16 19:35	56-23-5	
Chlorobenzene	ND	ug/kg	58.2	9.4	1	03/07/16 08:58	03/07/16 19:35	108-90-7	
Chloroethane	ND	ug/kg	582	27.8	1	03/07/16 08:58	03/07/16 19:35	75-00-3	
Chloroform	ND	ug/kg	58.2	9.7	1	03/07/16 08:58	03/07/16 19:35	67-66-3	
Chloromethane	ND	ug/kg	233	11.8	1	03/07/16 08:58	03/07/16 19:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.2	12.0	1	03/07/16 08:58	03/07/16 19:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.2	10.9	1	03/07/16 08:58	03/07/16 19:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	582	45.1	1	03/07/16 08:58	03/07/16 19:35	96-12-8	
Dibromochloromethane	ND	ug/kg	58.2	9.0	1	03/07/16 08:58	03/07/16 19:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.2	9.9	1	03/07/16 08:58	03/07/16 19:35	106-93-4	
Dibromomethane	ND	ug/kg	58.2	13.7	1	03/07/16 08:58	03/07/16 19:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.2	14.1	1	03/07/16 08:58	03/07/16 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.2	14.2	1	03/07/16 08:58	03/07/16 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.2	12.3	1	03/07/16 08:58	03/07/16 19:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	14.3	1	03/07/16 08:58	03/07/16 19:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.2	11.1	1	03/07/16 08:58	03/07/16 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.2	13.0	1	03/07/16 08:58	03/07/16 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.2	13.3	1	03/07/16 08:58	03/07/16 19:35	75-35-4	
cis-1,2-Dichloroethene	**133**	ug/kg	58.2	20.7	1	03/07/16 08:58	03/07/16 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.2	9.6	1	03/07/16 08:58	03/07/16 19:35	156-60-5	
Dichlorofluoromethane	ND	ug/kg	582	54.7	1	03/07/16 08:58	03/07/16 19:35	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.2	11.9	1	03/07/16 08:58	03/07/16 19:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.2	9.1	1	03/07/16 08:58	03/07/16 19:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	23.5	1	03/07/16 08:58	03/07/16 19:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.2	11.6	1	03/07/16 08:58	03/07/16 19:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.2	6.0	1	03/07/16 08:58	03/07/16 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.2	22.6	1	03/07/16 08:58	03/07/16 19:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	19.0	1	03/07/16 08:58	03/07/16 19:35	60-29-7	
Ethylbenzene	ND	ug/kg	58.2	9.3	1	03/07/16 08:58	03/07/16 19:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	291	24.8	1	03/07/16 08:58	03/07/16 19:35	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B31-S-83 **Lab ID: 10340392005** Collected: 02/29/16 12:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.2	10.6	1	03/07/16 08:58	03/07/16 19:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.2	10.2	1	03/07/16 08:58	03/07/16 19:35	99-87-6	
Methylene Chloride	ND	ug/kg	233	17.4	1	03/07/16 08:58	03/07/16 19:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	291	74.1	1	03/07/16 08:58	03/07/16 19:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.2	15.7	1	03/07/16 08:58	03/07/16 19:35	1634-04-4	
Naphthalene	ND	ug/kg	233	84.0	1	03/07/16 08:58	03/07/16 19:35	91-20-3	
n-Propylbenzene	ND	ug/kg	58.2	14.7	1	03/07/16 08:58	03/07/16 19:35	103-65-1	
Styrene	ND	ug/kg	58.2	9.2	1	03/07/16 08:58	03/07/16 19:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.2	11.2	1	03/07/16 08:58	03/07/16 19:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.2	11.1	1	03/07/16 08:58	03/07/16 19:35	79-34-5	
Tetrachloroethene	ND	ug/kg	58.2	12.0	1	03/07/16 08:58	03/07/16 19:35	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	92.1	1	03/07/16 08:58	03/07/16 19:35	109-99-9	
Toluene	ND	ug/kg	58.2	11.2	1	03/07/16 08:58	03/07/16 19:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.2	22.6	1	03/07/16 08:58	03/07/16 19:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.2	10.6	1	03/07/16 08:58	03/07/16 19:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.2	11.3	1	03/07/16 08:58	03/07/16 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.2	16.0	1	03/07/16 08:58	03/07/16 19:35	79-00-5	
Trichloroethene	ND	ug/kg	58.2	14.1	1	03/07/16 08:58	03/07/16 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	40.3	1	03/07/16 08:58	03/07/16 19:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	16.1	1	03/07/16 08:58	03/07/16 19:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	13.7	1	03/07/16 08:58	03/07/16 19:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.2	11.6	1	03/07/16 08:58	03/07/16 19:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.2	13.0	1	03/07/16 08:58	03/07/16 19:35	108-67-8	
Vinyl chloride	ND	ug/kg	58.2	10.5	1	03/07/16 08:58	03/07/16 19:35	75-01-4	
Xylene (Total)	ND	ug/kg	175	34.8	1	03/07/16 08:58	03/07/16 19:35	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/07/16 08:58	03/07/16 19:35	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/07/16 08:58	03/07/16 19:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/07/16 08:58	03/07/16 19:35	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-32 **Lab ID: 10340392006** Collected: 03/01/16 13:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**6.3**	%	0.10	0.10	1		03/08/16 09:44		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1030	230	1	03/08/16 13:35	03/08/16 19:26	67-64-1	
Allyl chloride	ND	ug/kg	205	12.5	1	03/08/16 13:35	03/08/16 19:26	107-05-1	
Benzene	ND	ug/kg	20.5	10.9	1	03/08/16 13:35	03/08/16 19:26	71-43-2	
Bromobenzene	ND	ug/kg	51.3	12.4	1	03/08/16 13:35	03/08/16 19:26	108-86-1	
Bromochloromethane	ND	ug/kg	51.3	9.8	1	03/08/16 13:35	03/08/16 19:26	74-97-5	
Bromodichloromethane	ND	ug/kg	51.3	9.1	1	03/08/16 13:35	03/08/16 19:26	75-27-4	
Bromoform	ND	ug/kg	513	12.2	1	03/08/16 13:35	03/08/16 19:26	75-25-2	
Bromomethane	ND	ug/kg	513	90.0	1	03/08/16 13:35	03/08/16 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	256	85.1	1	03/08/16 13:35	03/08/16 19:26	78-93-3	
n-Butylbenzene	ND	ug/kg	51.3	9.6	1	03/08/16 13:35	03/08/16 19:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.3	10.5	1	03/08/16 13:35	03/08/16 19:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.3	13.7	1	03/08/16 13:35	03/08/16 19:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.3	12.4	1	03/08/16 13:35	03/08/16 19:26	56-23-5	
Chlorobenzene	ND	ug/kg	51.3	8.3	1	03/08/16 13:35	03/08/16 19:26	108-90-7	
Chloroethane	ND	ug/kg	513	24.5	1	03/08/16 13:35	03/08/16 19:26	75-00-3	
Chloroform	ND	ug/kg	51.3	8.6	1	03/08/16 13:35	03/08/16 19:26	67-66-3	
Chloromethane	ND	ug/kg	205	10.4	1	03/08/16 13:35	03/08/16 19:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.3	10.6	1	03/08/16 13:35	03/08/16 19:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.3	9.6	1	03/08/16 13:35	03/08/16 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	513	39.7	1	03/08/16 13:35	03/08/16 19:26	96-12-8	
Dibromochloromethane	ND	ug/kg	51.3	7.9	1	03/08/16 13:35	03/08/16 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.3	8.7	1	03/08/16 13:35	03/08/16 19:26	106-93-4	
Dibromomethane	ND	ug/kg	51.3	12.1	1	03/08/16 13:35	03/08/16 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.3	12.4	1	03/08/16 13:35	03/08/16 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.3	12.5	1	03/08/16 13:35	03/08/16 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.3	10.9	1	03/08/16 13:35	03/08/16 19:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	205	12.6	1	03/08/16 13:35	03/08/16 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.3	9.8	1	03/08/16 13:35	03/08/16 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.3	11.5	1	03/08/16 13:35	03/08/16 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	51.3	11.7	1	03/08/16 13:35	03/08/16 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.3	18.3	1	03/08/16 13:35	03/08/16 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.3	8.4	1	03/08/16 13:35	03/08/16 19:26	156-60-5	
Dichlorofluoromethane	ND	ug/kg	513	48.2	1	03/08/16 13:35	03/08/16 19:26	75-43-4	
1,2-Dichloropropane	ND	ug/kg	51.3	10.5	1	03/08/16 13:35	03/08/16 19:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.3	8.0	1	03/08/16 13:35	03/08/16 19:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	205	20.7	1	03/08/16 13:35	03/08/16 19:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	51.3	10.3	1	03/08/16 13:35	03/08/16 19:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.3	5.3	1	03/08/16 13:35	03/08/16 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.3	19.9	1	03/08/16 13:35	03/08/16 19:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	205	16.7	1	03/08/16 13:35	03/08/16 19:26	60-29-7	
Ethylbenzene	ND	ug/kg	51.3	8.2	1	03/08/16 13:35	03/08/16 19:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	256	21.8	1	03/08/16 13:35	03/08/16 19:26	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-32 **Lab ID: 10340392006** Collected: 03/01/16 13:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.3	9.3	1	03/08/16 13:35	03/08/16 19:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	51.3	9.0	1	03/08/16 13:35	03/08/16 19:26	99-87-6	
Methylene Chloride	ND	ug/kg	205	15.3	1	03/08/16 13:35	03/08/16 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	256	65.2	1	03/08/16 13:35	03/08/16 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.3	13.8	1	03/08/16 13:35	03/08/16 19:26	1634-04-4	
Naphthalene	ND	ug/kg	205	73.9	1	03/08/16 13:35	03/08/16 19:26	91-20-3	
n-Propylbenzene	ND	ug/kg	51.3	12.9	1	03/08/16 13:35	03/08/16 19:26	103-65-1	
Styrene	ND	ug/kg	51.3	8.1	1	03/08/16 13:35	03/08/16 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.3	9.9	1	03/08/16 13:35	03/08/16 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.3	9.8	1	03/08/16 13:35	03/08/16 19:26	79-34-5	
Tetrachloroethene	ND	ug/kg	51.3	10.6	1	03/08/16 13:35	03/08/16 19:26	127-18-4	
Tetrahydrofuran	ND	ug/kg	2050	81.1	1	03/08/16 13:35	03/08/16 19:26	109-99-9	
Toluene	ND	ug/kg	51.3	9.8	1	03/08/16 13:35	03/08/16 19:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.3	19.9	1	03/08/16 13:35	03/08/16 19:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.3	9.3	1	03/08/16 13:35	03/08/16 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	51.3	10	1	03/08/16 13:35	03/08/16 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.3	14.1	1	03/08/16 13:35	03/08/16 19:26	79-00-5	
Trichloroethene	ND	ug/kg	51.3	12.4	1	03/08/16 13:35	03/08/16 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	205	35.5	1	03/08/16 13:35	03/08/16 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	205	14.2	1	03/08/16 13:35	03/08/16 19:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	205	12.1	1	03/08/16 13:35	03/08/16 19:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.3	10.3	1	03/08/16 13:35	03/08/16 19:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.3	11.5	1	03/08/16 13:35	03/08/16 19:26	108-67-8	
Vinyl chloride	ND	ug/kg	51.3	9.2	1	03/08/16 13:35	03/08/16 19:26	75-01-4	
Xylene (Total)	ND	ug/kg	154	30.7	1	03/08/16 13:35	03/08/16 19:26	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-129		1	03/08/16 13:35	03/08/16 19:26	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/08/16 13:35	03/08/16 19:26	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/08/16 13:35	03/08/16 19:26	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-79 **Lab ID: 10340392007** Collected: 03/01/16 14:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.3**	%	0.10	0.10	1		03/08/16 09:44		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1160	260	1	03/08/16 13:35	03/08/16 17:19	67-64-1	
Allyl chloride	ND	ug/kg	232	14.2	1	03/08/16 13:35	03/08/16 17:19	107-05-1	
Benzene	ND	ug/kg	23.2	12.3	1	03/08/16 13:35	03/08/16 17:19	71-43-2	
Bromobenzene	ND	ug/kg	58.0	14.0	1	03/08/16 13:35	03/08/16 17:19	108-86-1	
Bromochloromethane	ND	ug/kg	58.0	11.1	1	03/08/16 13:35	03/08/16 17:19	74-97-5	
Bromodichloromethane	ND	ug/kg	58.0	10.3	1	03/08/16 13:35	03/08/16 17:19	75-27-4	
Bromoform	ND	ug/kg	580	13.8	1	03/08/16 13:35	03/08/16 17:19	75-25-2	
Bromomethane	ND	ug/kg	580	102	1	03/08/16 13:35	03/08/16 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	290	96.4	1	03/08/16 13:35	03/08/16 17:19	78-93-3	
n-Butylbenzene	ND	ug/kg	58.0	10.9	1	03/08/16 13:35	03/08/16 17:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.0	11.8	1	03/08/16 13:35	03/08/16 17:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.0	15.6	1	03/08/16 13:35	03/08/16 17:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.0	14.0	1	03/08/16 13:35	03/08/16 17:19	56-23-5	
Chlorobenzene	ND	ug/kg	58.0	9.4	1	03/08/16 13:35	03/08/16 17:19	108-90-7	
Chloroethane	ND	ug/kg	580	27.7	1	03/08/16 13:35	03/08/16 17:19	75-00-3	
Chloroform	ND	ug/kg	58.0	9.7	1	03/08/16 13:35	03/08/16 17:19	67-66-3	
Chloromethane	ND	ug/kg	232	11.7	1	03/08/16 13:35	03/08/16 17:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.0	12.0	1	03/08/16 13:35	03/08/16 17:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.0	10.9	1	03/08/16 13:35	03/08/16 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	580	44.9	1	03/08/16 13:35	03/08/16 17:19	96-12-8	
Dibromochloromethane	ND	ug/kg	58.0	9.0	1	03/08/16 13:35	03/08/16 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.0	9.8	1	03/08/16 13:35	03/08/16 17:19	106-93-4	
Dibromomethane	ND	ug/kg	58.0	13.7	1	03/08/16 13:35	03/08/16 17:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.0	14.0	1	03/08/16 13:35	03/08/16 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.0	14.2	1	03/08/16 13:35	03/08/16 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.0	12.3	1	03/08/16 13:35	03/08/16 17:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	232	14.3	1	03/08/16 13:35	03/08/16 17:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.0	11.1	1	03/08/16 13:35	03/08/16 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.0	13.0	1	03/08/16 13:35	03/08/16 17:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.0	13.2	1	03/08/16 13:35	03/08/16 17:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.0	20.7	1	03/08/16 13:35	03/08/16 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.0	9.5	1	03/08/16 13:35	03/08/16 17:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	580	54.6	1	03/08/16 13:35	03/08/16 17:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.0	11.8	1	03/08/16 13:35	03/08/16 17:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.0	9.1	1	03/08/16 13:35	03/08/16 17:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	232	23.4	1	03/08/16 13:35	03/08/16 17:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.0	11.6	1	03/08/16 13:35	03/08/16 17:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.0	6.0	1	03/08/16 13:35	03/08/16 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.0	22.5	1	03/08/16 13:35	03/08/16 17:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	232	18.9	1	03/08/16 13:35	03/08/16 17:19	60-29-7	
Ethylbenzene	ND	ug/kg	58.0	9.3	1	03/08/16 13:35	03/08/16 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	290	24.7	1	03/08/16 13:35	03/08/16 17:19	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-79 **Lab ID: 10340392007** Collected: 03/01/16 14:15 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.0	10.6	1	03/08/16 13:35	03/08/16 17:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.0	10.1	1	03/08/16 13:35	03/08/16 17:19	99-87-6	
Methylene Chloride	ND	ug/kg	232	17.3	1	03/08/16 13:35	03/08/16 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	290	73.8	1	03/08/16 13:35	03/08/16 17:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.0	15.7	1	03/08/16 13:35	03/08/16 17:19	1634-04-4	
Naphthalene	ND	ug/kg	232	83.7	1	03/08/16 13:35	03/08/16 17:19	91-20-3	
n-Propylbenzene	ND	ug/kg	58.0	14.6	1	03/08/16 13:35	03/08/16 17:19	103-65-1	
Styrene	ND	ug/kg	58.0	9.2	1	03/08/16 13:35	03/08/16 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.0	11.2	1	03/08/16 13:35	03/08/16 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.0	11.1	1	03/08/16 13:35	03/08/16 17:19	79-34-5	
Tetrachloroethene	ND	ug/kg	58.0	12.0	1	03/08/16 13:35	03/08/16 17:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2320	91.8	1	03/08/16 13:35	03/08/16 17:19	109-99-9	
Toluene	ND	ug/kg	58.0	11.1	1	03/08/16 13:35	03/08/16 17:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.0	22.5	1	03/08/16 13:35	03/08/16 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.0	10.6	1	03/08/16 13:35	03/08/16 17:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.0	11.3	1	03/08/16 13:35	03/08/16 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.0	15.9	1	03/08/16 13:35	03/08/16 17:19	79-00-5	
Trichloroethene	ND	ug/kg	58.0	14.0	1	03/08/16 13:35	03/08/16 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	232	40.2	1	03/08/16 13:35	03/08/16 17:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	232	16.0	1	03/08/16 13:35	03/08/16 17:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	232	13.7	1	03/08/16 13:35	03/08/16 17:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.0	11.6	1	03/08/16 13:35	03/08/16 17:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.0	13.0	1	03/08/16 13:35	03/08/16 17:19	108-67-8	
Vinyl chloride	ND	ug/kg	58.0	10.4	1	03/08/16 13:35	03/08/16 17:19	75-01-4	
Xylene (Total)	ND	ug/kg	174	34.7	1	03/08/16 13:35	03/08/16 17:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%.	75-129		1	03/08/16 13:35	03/08/16 17:19	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	03/08/16 13:35	03/08/16 17:19	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/08/16 13:35	03/08/16 17:19	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-89 **Lab ID: 10340392008** Collected: 03/01/16 14:40 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.1**	%	0.10	0.10	1		03/08/16 09:45		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	270	1	03/08/16 13:35	03/08/16 17:37	67-64-1	
Allyl chloride	ND	ug/kg	241	14.7	1	03/08/16 13:35	03/08/16 17:37	107-05-1	
Benzene	ND	ug/kg	24.1	12.8	1	03/08/16 13:35	03/08/16 17:37	71-43-2	
Bromobenzene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 17:37	108-86-1	
Bromochloromethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 17:37	74-97-5	
Bromodichloromethane	ND	ug/kg	60.2	10.7	1	03/08/16 13:35	03/08/16 17:37	75-27-4	
Bromoform	ND	ug/kg	602	14.3	1	03/08/16 13:35	03/08/16 17:37	75-25-2	
Bromomethane	ND	ug/kg	602	106	1	03/08/16 13:35	03/08/16 17:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	301	100	1	03/08/16 13:35	03/08/16 17:37	78-93-3	
n-Butylbenzene	ND	ug/kg	60.2	11.3	1	03/08/16 13:35	03/08/16 17:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.2	12.3	1	03/08/16 13:35	03/08/16 17:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.2	16.1	1	03/08/16 13:35	03/08/16 17:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 17:37	56-23-5	
Chlorobenzene	ND	ug/kg	60.2	9.8	1	03/08/16 13:35	03/08/16 17:37	108-90-7	
Chloroethane	ND	ug/kg	602	28.8	1	03/08/16 13:35	03/08/16 17:37	75-00-3	
Chloroform	ND	ug/kg	60.2	10.1	1	03/08/16 13:35	03/08/16 17:37	67-66-3	
Chloromethane	ND	ug/kg	241	12.2	1	03/08/16 13:35	03/08/16 17:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.2	12.4	1	03/08/16 13:35	03/08/16 17:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.2	11.3	1	03/08/16 13:35	03/08/16 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	602	46.6	1	03/08/16 13:35	03/08/16 17:37	96-12-8	
Dibromochloromethane	ND	ug/kg	60.2	9.3	1	03/08/16 13:35	03/08/16 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.2	10.2	1	03/08/16 13:35	03/08/16 17:37	106-93-4	
Dibromomethane	ND	ug/kg	60.2	14.2	1	03/08/16 13:35	03/08/16 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.2	14.7	1	03/08/16 13:35	03/08/16 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.2	12.8	1	03/08/16 13:35	03/08/16 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	241	14.8	1	03/08/16 13:35	03/08/16 17:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.2	13.5	1	03/08/16 13:35	03/08/16 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.2	13.7	1	03/08/16 13:35	03/08/16 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.2	21.4	1	03/08/16 13:35	03/08/16 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.2	9.9	1	03/08/16 13:35	03/08/16 17:37	156-60-5	
Dichlorofluoromethane	ND	ug/kg	602	56.6	1	03/08/16 13:35	03/08/16 17:37	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.2	12.3	1	03/08/16 13:35	03/08/16 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.2	9.4	1	03/08/16 13:35	03/08/16 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	241	24.3	1	03/08/16 13:35	03/08/16 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.2	12.0	1	03/08/16 13:35	03/08/16 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.2	6.3	1	03/08/16 13:35	03/08/16 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	60.2	23.4	1	03/08/16 13:35	03/08/16 17:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	241	19.6	1	03/08/16 13:35	03/08/16 17:37	60-29-7	
Ethylbenzene	ND	ug/kg	60.2	9.7	1	03/08/16 13:35	03/08/16 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	301	25.7	1	03/08/16 13:35	03/08/16 17:37	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B22-S-89 **Lab ID: 10340392008** Collected: 03/01/16 14:40 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.2	11.0	1	03/08/16 13:35	03/08/16 17:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.2	10.5	1	03/08/16 13:35	03/08/16 17:37	99-87-6	
Methylene Chloride	ND	ug/kg	241	18.0	1	03/08/16 13:35	03/08/16 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	301	76.6	1	03/08/16 13:35	03/08/16 17:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.2	16.3	1	03/08/16 13:35	03/08/16 17:37	1634-04-4	
Naphthalene	ND	ug/kg	241	86.9	1	03/08/16 13:35	03/08/16 17:37	91-20-3	
n-Propylbenzene	ND	ug/kg	60.2	15.2	1	03/08/16 13:35	03/08/16 17:37	103-65-1	
Styrene	ND	ug/kg	60.2	9.6	1	03/08/16 13:35	03/08/16 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.2	11.6	1	03/08/16 13:35	03/08/16 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 17:37	79-34-5	
Tetrachloroethene	ND	ug/kg	60.2	12.4	1	03/08/16 13:35	03/08/16 17:37	127-18-4	
Tetrahydrofuran	ND	ug/kg	2410	95.3	1	03/08/16 13:35	03/08/16 17:37	109-99-9	
Toluene	ND	ug/kg	60.2	11.6	1	03/08/16 13:35	03/08/16 17:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.2	23.4	1	03/08/16 13:35	03/08/16 17:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.2	11.0	1	03/08/16 13:35	03/08/16 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.2	11.7	1	03/08/16 13:35	03/08/16 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.2	16.5	1	03/08/16 13:35	03/08/16 17:37	79-00-5	
Trichloroethene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	241	41.7	1	03/08/16 13:35	03/08/16 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	241	16.6	1	03/08/16 13:35	03/08/16 17:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	241	14.2	1	03/08/16 13:35	03/08/16 17:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.2	12.0	1	03/08/16 13:35	03/08/16 17:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.2	13.5	1	03/08/16 13:35	03/08/16 17:37	108-67-8	
Vinyl chloride	ND	ug/kg	60.2	10.8	1	03/08/16 13:35	03/08/16 17:37	75-01-4	
Xylene (Total)	ND	ug/kg	181	36.1	1	03/08/16 13:35	03/08/16 17:37	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/08/16 13:35	03/08/16 17:37	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/08/16 13:35	03/08/16 17:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/08/16 13:35	03/08/16 17:37	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-30 **Lab ID: 10340392009** Collected: 03/02/16 12:40 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**6.5**	%	0.10	0.10	1		03/08/16 09:45		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1070	239	1	03/08/16 13:35	03/08/16 17:55	67-64-1	
Allyl chloride	ND	ug/kg	213	13.0	1	03/08/16 13:35	03/08/16 17:55	107-05-1	
Benzene	ND	ug/kg	21.3	11.3	1	03/08/16 13:35	03/08/16 17:55	71-43-2	
Bromobenzene	ND	ug/kg	53.3	12.9	1	03/08/16 13:35	03/08/16 17:55	108-86-1	
Bromochloromethane	ND	ug/kg	53.3	10.2	1	03/08/16 13:35	03/08/16 17:55	74-97-5	
Bromodichloromethane	ND	ug/kg	53.3	9.5	1	03/08/16 13:35	03/08/16 17:55	75-27-4	
Bromoform	ND	ug/kg	533	12.7	1	03/08/16 13:35	03/08/16 17:55	75-25-2	
Bromomethane	ND	ug/kg	533	93.6	1	03/08/16 13:35	03/08/16 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	266	88.4	1	03/08/16 13:35	03/08/16 17:55	78-93-3	
n-Butylbenzene	ND	ug/kg	53.3	10.0	1	03/08/16 13:35	03/08/16 17:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.3	10.9	1	03/08/16 13:35	03/08/16 17:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.3	14.3	1	03/08/16 13:35	03/08/16 17:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.3	12.9	1	03/08/16 13:35	03/08/16 17:55	56-23-5	
Chlorobenzene	ND	ug/kg	53.3	8.6	1	03/08/16 13:35	03/08/16 17:55	108-90-7	
Chloroethane	ND	ug/kg	533	25.5	1	03/08/16 13:35	03/08/16 17:55	75-00-3	
Chloroform	ND	ug/kg	53.3	8.9	1	03/08/16 13:35	03/08/16 17:55	67-66-3	
Chloromethane	ND	ug/kg	213	10.8	1	03/08/16 13:35	03/08/16 17:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.3	11.0	1	03/08/16 13:35	03/08/16 17:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.3	10.0	1	03/08/16 13:35	03/08/16 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	533	41.2	1	03/08/16 13:35	03/08/16 17:55	96-12-8	
Dibromochloromethane	ND	ug/kg	53.3	8.2	1	03/08/16 13:35	03/08/16 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.3	9.0	1	03/08/16 13:35	03/08/16 17:55	106-93-4	
Dibromomethane	ND	ug/kg	53.3	12.6	1	03/08/16 13:35	03/08/16 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.3	12.9	1	03/08/16 13:35	03/08/16 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.3	13.0	1	03/08/16 13:35	03/08/16 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.3	11.3	1	03/08/16 13:35	03/08/16 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	213	13.1	1	03/08/16 13:35	03/08/16 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.3	10.2	1	03/08/16 13:35	03/08/16 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.3	11.9	1	03/08/16 13:35	03/08/16 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.3	12.1	1	03/08/16 13:35	03/08/16 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.3	19.0	1	03/08/16 13:35	03/08/16 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.3	8.7	1	03/08/16 13:35	03/08/16 17:55	156-60-5	
Dichlorofluoromethane	ND	ug/kg	533	50.1	1	03/08/16 13:35	03/08/16 17:55	75-43-4	
1,2-Dichloropropane	ND	ug/kg	53.3	10.9	1	03/08/16 13:35	03/08/16 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.3	8.3	1	03/08/16 13:35	03/08/16 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	213	21.5	1	03/08/16 13:35	03/08/16 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.3	10.7	1	03/08/16 13:35	03/08/16 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.3	5.5	1	03/08/16 13:35	03/08/16 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.3	20.7	1	03/08/16 13:35	03/08/16 17:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	213	17.4	1	03/08/16 13:35	03/08/16 17:55	60-29-7	
Ethylbenzene	ND	ug/kg	53.3	8.5	1	03/08/16 13:35	03/08/16 17:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	266	22.7	1	03/08/16 13:35	03/08/16 17:55	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-30 **Lab ID: 10340392009** Collected: 03/02/16 12:40 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	53.3	9.7	1	03/08/16 13:35	03/08/16 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.3	9.3	1	03/08/16 13:35	03/08/16 17:55	99-87-6	
Methylene Chloride	ND	ug/kg	213	15.9	1	03/08/16 13:35	03/08/16 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	266	67.8	1	03/08/16 13:35	03/08/16 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.3	14.4	1	03/08/16 13:35	03/08/16 17:55	1634-04-4	
Naphthalene	ND	ug/kg	213	76.8	1	03/08/16 13:35	03/08/16 17:55	91-20-3	
n-Propylbenzene	ND	ug/kg	53.3	13.4	1	03/08/16 13:35	03/08/16 17:55	103-65-1	
Styrene	ND	ug/kg	53.3	8.5	1	03/08/16 13:35	03/08/16 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.3	10.2	1	03/08/16 13:35	03/08/16 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.3	10.2	1	03/08/16 13:35	03/08/16 17:55	79-34-5	
Tetrachloroethene	ND	ug/kg	53.3	11.0	1	03/08/16 13:35	03/08/16 17:55	127-18-4	
Tetrahydrofuran	ND	ug/kg	2130	84.3	1	03/08/16 13:35	03/08/16 17:55	109-99-9	
Toluene	ND	ug/kg	53.3	10.2	1	03/08/16 13:35	03/08/16 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.3	20.7	1	03/08/16 13:35	03/08/16 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.3	9.7	1	03/08/16 13:35	03/08/16 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	53.3	10.4	1	03/08/16 13:35	03/08/16 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.3	14.6	1	03/08/16 13:35	03/08/16 17:55	79-00-5	
Trichloroethene	ND	ug/kg	53.3	12.9	1	03/08/16 13:35	03/08/16 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	213	36.9	1	03/08/16 13:35	03/08/16 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	213	14.7	1	03/08/16 13:35	03/08/16 17:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	213	12.6	1	03/08/16 13:35	03/08/16 17:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	53.3	10.7	1	03/08/16 13:35	03/08/16 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.3	11.9	1	03/08/16 13:35	03/08/16 17:55	108-67-8	
Vinyl chloride	ND	ug/kg	53.3	9.6	1	03/08/16 13:35	03/08/16 17:55	75-01-4	
Xylene (Total)	ND	ug/kg	160	31.9	1	03/08/16 13:35	03/08/16 17:55	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-129		1	03/08/16 13:35	03/08/16 17:55	17060-07-0	
Toluene-d8 (S)	95	%.	75-125		1	03/08/16 13:35	03/08/16 17:55	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/08/16 13:35	03/08/16 17:55	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-47 **Lab ID: 10340392010** Collected: 03/02/16 12:45 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**11.0**	%	0.10	0.10	1		03/08/16 09:45		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1240	278	1	03/08/16 13:35	03/08/16 21:33	67-64-1	
Allyl chloride	ND	ug/kg	248	15.1	1	03/08/16 13:35	03/08/16 21:33	107-05-1	
Benzene	ND	ug/kg	24.8	13.1	1	03/08/16 13:35	03/08/16 21:33	71-43-2	
Bromobenzene	ND	ug/kg	62.0	15.0	1	03/08/16 13:35	03/08/16 21:33	108-86-1	
Bromochloromethane	ND	ug/kg	62.0	11.9	1	03/08/16 13:35	03/08/16 21:33	74-97-5	
Bromodichloromethane	ND	ug/kg	62.0	11.0	1	03/08/16 13:35	03/08/16 21:33	75-27-4	
Bromoform	ND	ug/kg	620	14.8	1	03/08/16 13:35	03/08/16 21:33	75-25-2	
Bromomethane	ND	ug/kg	620	109	1	03/08/16 13:35	03/08/16 21:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	310	103	1	03/08/16 13:35	03/08/16 21:33	78-93-3	
n-Butylbenzene	ND	ug/kg	62.0	11.7	1	03/08/16 13:35	03/08/16 21:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	62.0	12.7	1	03/08/16 13:35	03/08/16 21:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	62.0	16.6	1	03/08/16 13:35	03/08/16 21:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	62.0	15.0	1	03/08/16 13:35	03/08/16 21:33	56-23-5	
Chlorobenzene	ND	ug/kg	62.0	10.1	1	03/08/16 13:35	03/08/16 21:33	108-90-7	
Chloroethane	ND	ug/kg	620	29.6	1	03/08/16 13:35	03/08/16 21:33	75-00-3	
Chloroform	ND	ug/kg	62.0	10.4	1	03/08/16 13:35	03/08/16 21:33	67-66-3	
Chloromethane	ND	ug/kg	248	12.5	1	03/08/16 13:35	03/08/16 21:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	62.0	12.8	1	03/08/16 13:35	03/08/16 21:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	62.0	11.6	1	03/08/16 13:35	03/08/16 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	620	48.0	1	03/08/16 13:35	03/08/16 21:33	96-12-8	
Dibromochloromethane	ND	ug/kg	62.0	9.6	1	03/08/16 13:35	03/08/16 21:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	62.0	10.5	1	03/08/16 13:35	03/08/16 21:33	106-93-4	
Dibromomethane	ND	ug/kg	62.0	14.6	1	03/08/16 13:35	03/08/16 21:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	62.0	15.0	1	03/08/16 13:35	03/08/16 21:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	62.0	15.1	1	03/08/16 13:35	03/08/16 21:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	62.0	13.1	1	03/08/16 13:35	03/08/16 21:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	248	15.3	1	03/08/16 13:35	03/08/16 21:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	62.0	11.9	1	03/08/16 13:35	03/08/16 21:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	62.0	13.9	1	03/08/16 13:35	03/08/16 21:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	62.0	14.1	1	03/08/16 13:35	03/08/16 21:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	62.0	22.1	1	03/08/16 13:35	03/08/16 21:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	62.0	10.2	1	03/08/16 13:35	03/08/16 21:33	156-60-5	
Dichlorofluoromethane	ND	ug/kg	620	58.3	1	03/08/16 13:35	03/08/16 21:33	75-43-4	M1
1,2-Dichloropropane	ND	ug/kg	62.0	12.7	1	03/08/16 13:35	03/08/16 21:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	62.0	9.7	1	03/08/16 13:35	03/08/16 21:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	248	25.1	1	03/08/16 13:35	03/08/16 21:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	62.0	12.4	1	03/08/16 13:35	03/08/16 21:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	62.0	6.4	1	03/08/16 13:35	03/08/16 21:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	62.0	24.1	1	03/08/16 13:35	03/08/16 21:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	248	20.2	1	03/08/16 13:35	03/08/16 21:33	60-29-7	
Ethylbenzene	ND	ug/kg	62.0	9.9	1	03/08/16 13:35	03/08/16 21:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	310	26.4	1	03/08/16 13:35	03/08/16 21:33	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-47 **Lab ID: 10340392010** Collected: 03/02/16 12:45 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	62.0	11.3	1	03/08/16 13:35	03/08/16 21:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	62.0	10.8	1	03/08/16 13:35	03/08/16 21:33	99-87-6	
Methylene Chloride	ND	ug/kg	248	18.5	1	03/08/16 13:35	03/08/16 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	310	78.9	1	03/08/16 13:35	03/08/16 21:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	62.0	16.7	1	03/08/16 13:35	03/08/16 21:33	1634-04-4	
Naphthalene	ND	ug/kg	248	89.4	1	03/08/16 13:35	03/08/16 21:33	91-20-3	
n-Propylbenzene	ND	ug/kg	62.0	15.6	1	03/08/16 13:35	03/08/16 21:33	103-65-1	
Styrene	ND	ug/kg	62.0	9.8	1	03/08/16 13:35	03/08/16 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	62.0	11.9	1	03/08/16 13:35	03/08/16 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	62.0	11.9	1	03/08/16 13:35	03/08/16 21:33	79-34-5	
Tetrachloroethene	ND	ug/kg	62.0	12.8	1	03/08/16 13:35	03/08/16 21:33	127-18-4	
Tetrahydrofuran	ND	ug/kg	2480	98.1	1	03/08/16 13:35	03/08/16 21:33	109-99-9	
Toluene	ND	ug/kg	62.0	11.9	1	03/08/16 13:35	03/08/16 21:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	62.0	24.1	1	03/08/16 13:35	03/08/16 21:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	62.0	11.3	1	03/08/16 13:35	03/08/16 21:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	62.0	12.1	1	03/08/16 13:35	03/08/16 21:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	62.0	17.0	1	03/08/16 13:35	03/08/16 21:33	79-00-5	
Trichloroethene	ND	ug/kg	62.0	15.0	1	03/08/16 13:35	03/08/16 21:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	248	42.9	1	03/08/16 13:35	03/08/16 21:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	248	17.1	1	03/08/16 13:35	03/08/16 21:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	248	14.6	1	03/08/16 13:35	03/08/16 21:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	62.0	12.4	1	03/08/16 13:35	03/08/16 21:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	62.0	13.9	1	03/08/16 13:35	03/08/16 21:33	108-67-8	
Vinyl chloride	ND	ug/kg	62.0	11.2	1	03/08/16 13:35	03/08/16 21:33	75-01-4	
Xylene (Total)	ND	ug/kg	186	37.1	1	03/08/16 13:35	03/08/16 21:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/08/16 13:35	03/08/16 21:33	17060-07-0	
Toluene-d8 (S)	94	%.	75-125		1	03/08/16 13:35	03/08/16 21:33	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/08/16 13:35	03/08/16 21:33	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-53 **Lab ID: 10340392011** Collected: 03/02/16 12:50 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**17.3**	%	0.10	0.10	1		03/08/16 09:46		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	270	1	03/08/16 13:35	03/08/16 18:14	67-64-1	
Allyl chloride	ND	ug/kg	241	14.7	1	03/08/16 13:35	03/08/16 18:14	107-05-1	
Benzene	ND	ug/kg	24.1	12.8	1	03/08/16 13:35	03/08/16 18:14	71-43-2	
Bromobenzene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 18:14	108-86-1	
Bromochloromethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 18:14	74-97-5	
Bromodichloromethane	ND	ug/kg	60.2	10.7	1	03/08/16 13:35	03/08/16 18:14	75-27-4	
Bromoform	ND	ug/kg	602	14.3	1	03/08/16 13:35	03/08/16 18:14	75-25-2	
Bromomethane	ND	ug/kg	602	106	1	03/08/16 13:35	03/08/16 18:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	301	100	1	03/08/16 13:35	03/08/16 18:14	78-93-3	
n-Butylbenzene	ND	ug/kg	60.2	11.3	1	03/08/16 13:35	03/08/16 18:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.2	12.3	1	03/08/16 13:35	03/08/16 18:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.2	16.1	1	03/08/16 13:35	03/08/16 18:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 18:14	56-23-5	
Chlorobenzene	ND	ug/kg	60.2	9.8	1	03/08/16 13:35	03/08/16 18:14	108-90-7	
Chloroethane	ND	ug/kg	602	28.8	1	03/08/16 13:35	03/08/16 18:14	75-00-3	
Chloroform	ND	ug/kg	60.2	10.1	1	03/08/16 13:35	03/08/16 18:14	67-66-3	
Chloromethane	ND	ug/kg	241	12.2	1	03/08/16 13:35	03/08/16 18:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.2	12.4	1	03/08/16 13:35	03/08/16 18:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.2	11.3	1	03/08/16 13:35	03/08/16 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	602	46.6	1	03/08/16 13:35	03/08/16 18:14	96-12-8	
Dibromochloromethane	ND	ug/kg	60.2	9.3	1	03/08/16 13:35	03/08/16 18:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.2	10.2	1	03/08/16 13:35	03/08/16 18:14	106-93-4	
Dibromomethane	ND	ug/kg	60.2	14.2	1	03/08/16 13:35	03/08/16 18:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.2	14.7	1	03/08/16 13:35	03/08/16 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.2	12.8	1	03/08/16 13:35	03/08/16 18:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	241	14.8	1	03/08/16 13:35	03/08/16 18:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 18:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.2	13.5	1	03/08/16 13:35	03/08/16 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.2	13.7	1	03/08/16 13:35	03/08/16 18:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.2	21.4	1	03/08/16 13:35	03/08/16 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.2	9.9	1	03/08/16 13:35	03/08/16 18:14	156-60-5	
Dichlorofluoromethane	ND	ug/kg	602	56.6	1	03/08/16 13:35	03/08/16 18:14	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.2	12.3	1	03/08/16 13:35	03/08/16 18:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.2	9.4	1	03/08/16 13:35	03/08/16 18:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	241	24.3	1	03/08/16 13:35	03/08/16 18:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.2	12.0	1	03/08/16 13:35	03/08/16 18:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.2	6.3	1	03/08/16 13:35	03/08/16 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	60.2	23.4	1	03/08/16 13:35	03/08/16 18:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	241	19.6	1	03/08/16 13:35	03/08/16 18:14	60-29-7	
Ethylbenzene	ND	ug/kg	60.2	9.6	1	03/08/16 13:35	03/08/16 18:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	301	25.7	1	03/08/16 13:35	03/08/16 18:14	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-53 **Lab ID: 10340392011** Collected: 03/02/16 12:50 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.2	10.9	1	03/08/16 13:35	03/08/16 18:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.2	10.5	1	03/08/16 13:35	03/08/16 18:14	99-87-6	
Methylene Chloride	ND	ug/kg	241	17.9	1	03/08/16 13:35	03/08/16 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	301	76.6	1	03/08/16 13:35	03/08/16 18:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.2	16.3	1	03/08/16 13:35	03/08/16 18:14	1634-04-4	
Naphthalene	ND	ug/kg	241	86.9	1	03/08/16 13:35	03/08/16 18:14	91-20-3	
n-Propylbenzene	ND	ug/kg	60.2	15.2	1	03/08/16 13:35	03/08/16 18:14	103-65-1	
Styrene	ND	ug/kg	60.2	9.6	1	03/08/16 13:35	03/08/16 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.2	11.6	1	03/08/16 13:35	03/08/16 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.2	11.5	1	03/08/16 13:35	03/08/16 18:14	79-34-5	
Tetrachloroethene	ND	ug/kg	60.2	12.4	1	03/08/16 13:35	03/08/16 18:14	127-18-4	
Tetrahydrofuran	ND	ug/kg	2410	95.3	1	03/08/16 13:35	03/08/16 18:14	109-99-9	
Toluene	ND	ug/kg	60.2	11.6	1	03/08/16 13:35	03/08/16 18:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.2	23.4	1	03/08/16 13:35	03/08/16 18:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.2	11.0	1	03/08/16 13:35	03/08/16 18:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.2	11.7	1	03/08/16 13:35	03/08/16 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.2	16.5	1	03/08/16 13:35	03/08/16 18:14	79-00-5	
Trichloroethene	ND	ug/kg	60.2	14.6	1	03/08/16 13:35	03/08/16 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	241	41.7	1	03/08/16 13:35	03/08/16 18:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	241	16.6	1	03/08/16 13:35	03/08/16 18:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	241	14.2	1	03/08/16 13:35	03/08/16 18:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.2	12.0	1	03/08/16 13:35	03/08/16 18:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.2	13.5	1	03/08/16 13:35	03/08/16 18:14	108-67-8	
Vinyl chloride	ND	ug/kg	60.2	10.8	1	03/08/16 13:35	03/08/16 18:14	75-01-4	
Xylene (Total)	ND	ug/kg	181	36.0	1	03/08/16 13:35	03/08/16 18:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-129		1	03/08/16 13:35	03/08/16 18:14	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	03/08/16 13:35	03/08/16 18:14	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/08/16 13:35	03/08/16 18:14	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-78 **Lab ID: 10340392012** Collected: 03/02/16 12:55 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**9.8**	%	0.10	0.10	1		03/08/16 09:46		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1100	245	1	03/08/16 13:35	03/08/16 18:32	67-64-1	
Allyl chloride	ND	ug/kg	219	13.4	1	03/08/16 13:35	03/08/16 18:32	107-05-1	
Benzene	ND	ug/kg	21.9	11.6	1	03/08/16 13:35	03/08/16 18:32	71-43-2	
Bromobenzene	ND	ug/kg	54.8	13.3	1	03/08/16 13:35	03/08/16 18:32	108-86-1	
Bromochloromethane	ND	ug/kg	54.8	10.5	1	03/08/16 13:35	03/08/16 18:32	74-97-5	
Bromodichloromethane	ND	ug/kg	54.8	9.7	1	03/08/16 13:35	03/08/16 18:32	75-27-4	
Bromoform	ND	ug/kg	548	13.0	1	03/08/16 13:35	03/08/16 18:32	75-25-2	
Bromomethane	ND	ug/kg	548	96.2	1	03/08/16 13:35	03/08/16 18:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	274	90.9	1	03/08/16 13:35	03/08/16 18:32	78-93-3	
n-Butylbenzene	ND	ug/kg	54.8	10.3	1	03/08/16 13:35	03/08/16 18:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.8	11.2	1	03/08/16 13:35	03/08/16 18:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.8	14.7	1	03/08/16 13:35	03/08/16 18:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.8	13.3	1	03/08/16 13:35	03/08/16 18:32	56-23-5	
Chlorobenzene	ND	ug/kg	54.8	8.9	1	03/08/16 13:35	03/08/16 18:32	108-90-7	
Chloroethane	ND	ug/kg	548	26.2	1	03/08/16 13:35	03/08/16 18:32	75-00-3	
Chloroform	ND	ug/kg	54.8	9.2	1	03/08/16 13:35	03/08/16 18:32	67-66-3	
Chloromethane	ND	ug/kg	219	11.1	1	03/08/16 13:35	03/08/16 18:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.8	11.3	1	03/08/16 13:35	03/08/16 18:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.8	10.3	1	03/08/16 13:35	03/08/16 18:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	548	42.4	1	03/08/16 13:35	03/08/16 18:32	96-12-8	
Dibromochloromethane	ND	ug/kg	54.8	8.5	1	03/08/16 13:35	03/08/16 18:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.8	9.3	1	03/08/16 13:35	03/08/16 18:32	106-93-4	
Dibromomethane	ND	ug/kg	54.8	12.9	1	03/08/16 13:35	03/08/16 18:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.8	13.3	1	03/08/16 13:35	03/08/16 18:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.8	13.4	1	03/08/16 13:35	03/08/16 18:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.8	11.6	1	03/08/16 13:35	03/08/16 18:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	219	13.5	1	03/08/16 13:35	03/08/16 18:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.8	10.5	1	03/08/16 13:35	03/08/16 18:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.8	12.3	1	03/08/16 13:35	03/08/16 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.8	12.5	1	03/08/16 13:35	03/08/16 18:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.8	19.5	1	03/08/16 13:35	03/08/16 18:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.8	9.0	1	03/08/16 13:35	03/08/16 18:32	156-60-5	
Dichlorofluoromethane	ND	ug/kg	548	51.5	1	03/08/16 13:35	03/08/16 18:32	75-43-4	
1,2-Dichloropropane	ND	ug/kg	54.8	11.2	1	03/08/16 13:35	03/08/16 18:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.8	8.6	1	03/08/16 13:35	03/08/16 18:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	219	22.1	1	03/08/16 13:35	03/08/16 18:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.8	11.0	1	03/08/16 13:35	03/08/16 18:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.8	5.7	1	03/08/16 13:35	03/08/16 18:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.8	21.2	1	03/08/16 13:35	03/08/16 18:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	219	17.9	1	03/08/16 13:35	03/08/16 18:32	60-29-7	
Ethylbenzene	ND	ug/kg	54.8	8.8	1	03/08/16 13:35	03/08/16 18:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	274	23.3	1	03/08/16 13:35	03/08/16 18:32	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-78 **Lab ID: 10340392012** Collected: 03/02/16 12:55 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.8	10	1	03/08/16 13:35	03/08/16 18:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.8	9.6	1	03/08/16 13:35	03/08/16 18:32	99-87-6	
Methylene Chloride	ND	ug/kg	219	16.3	1	03/08/16 13:35	03/08/16 18:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	274	69.7	1	03/08/16 13:35	03/08/16 18:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.8	14.8	1	03/08/16 13:35	03/08/16 18:32	1634-04-4	
Naphthalene	ND	ug/kg	219	79.0	1	03/08/16 13:35	03/08/16 18:32	91-20-3	
n-Propylbenzene	ND	ug/kg	54.8	13.8	1	03/08/16 13:35	03/08/16 18:32	103-65-1	
Styrene	ND	ug/kg	54.8	8.7	1	03/08/16 13:35	03/08/16 18:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.8	10.5	1	03/08/16 13:35	03/08/16 18:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.8	10.5	1	03/08/16 13:35	03/08/16 18:32	79-34-5	
Tetrachloroethene	ND	ug/kg	54.8	11.3	1	03/08/16 13:35	03/08/16 18:32	127-18-4	
Tetrahydrofuran	ND	ug/kg	2190	86.6	1	03/08/16 13:35	03/08/16 18:32	109-99-9	
Toluene	ND	ug/kg	54.8	10.5	1	03/08/16 13:35	03/08/16 18:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.8	21.2	1	03/08/16 13:35	03/08/16 18:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.8	10	1	03/08/16 13:35	03/08/16 18:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.8	10.7	1	03/08/16 13:35	03/08/16 18:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.8	15.0	1	03/08/16 13:35	03/08/16 18:32	79-00-5	
Trichloroethene	ND	ug/kg	54.8	13.3	1	03/08/16 13:35	03/08/16 18:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	219	37.9	1	03/08/16 13:35	03/08/16 18:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	219	15.1	1	03/08/16 13:35	03/08/16 18:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	219	12.9	1	03/08/16 13:35	03/08/16 18:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.8	11.0	1	03/08/16 13:35	03/08/16 18:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.8	12.3	1	03/08/16 13:35	03/08/16 18:32	108-67-8	
Vinyl chloride	ND	ug/kg	54.8	9.8	1	03/08/16 13:35	03/08/16 18:32	75-01-4	
Xylene (Total)	ND	ug/kg	164	32.8	1	03/08/16 13:35	03/08/16 18:32	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/08/16 13:35	03/08/16 18:32	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/08/16 13:35	03/08/16 18:32	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	75-125		1	03/08/16 13:35	03/08/16 18:32	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-93 **Lab ID: 10340392013** Collected: 03/02/16 13:05 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**9.8**	%	0.10	0.10	1		03/08/16 09:46		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	256	1	03/08/16 13:35	03/08/16 18:50	67-64-1	
Allyl chloride	ND	ug/kg	228	13.9	1	03/08/16 13:35	03/08/16 18:50	107-05-1	
Benzene	ND	ug/kg	22.8	12.1	1	03/08/16 13:35	03/08/16 18:50	71-43-2	
Bromobenzene	ND	ug/kg	57.0	13.8	1	03/08/16 13:35	03/08/16 18:50	108-86-1	
Bromochloromethane	ND	ug/kg	57.0	10.9	1	03/08/16 13:35	03/08/16 18:50	74-97-5	
Bromodichloromethane	ND	ug/kg	57.0	10.2	1	03/08/16 13:35	03/08/16 18:50	75-27-4	
Bromoform	ND	ug/kg	570	13.6	1	03/08/16 13:35	03/08/16 18:50	75-25-2	
Bromomethane	ND	ug/kg	570	100	1	03/08/16 13:35	03/08/16 18:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	94.7	1	03/08/16 13:35	03/08/16 18:50	78-93-3	
n-Butylbenzene	ND	ug/kg	57.0	10.7	1	03/08/16 13:35	03/08/16 18:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.0	11.6	1	03/08/16 13:35	03/08/16 18:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.0	15.3	1	03/08/16 13:35	03/08/16 18:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.0	13.8	1	03/08/16 13:35	03/08/16 18:50	56-23-5	
Chlorobenzene	ND	ug/kg	57.0	9.3	1	03/08/16 13:35	03/08/16 18:50	108-90-7	
Chloroethane	ND	ug/kg	570	27.3	1	03/08/16 13:35	03/08/16 18:50	75-00-3	
Chloroform	ND	ug/kg	57.0	9.5	1	03/08/16 13:35	03/08/16 18:50	67-66-3	
Chloromethane	ND	ug/kg	228	11.5	1	03/08/16 13:35	03/08/16 18:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.0	11.8	1	03/08/16 13:35	03/08/16 18:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.0	10.7	1	03/08/16 13:35	03/08/16 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	570	44.2	1	03/08/16 13:35	03/08/16 18:50	96-12-8	
Dibromochloromethane	ND	ug/kg	57.0	8.8	1	03/08/16 13:35	03/08/16 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.0	9.7	1	03/08/16 13:35	03/08/16 18:50	106-93-4	
Dibromomethane	ND	ug/kg	57.0	13.5	1	03/08/16 13:35	03/08/16 18:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.0	13.8	1	03/08/16 13:35	03/08/16 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.0	13.9	1	03/08/16 13:35	03/08/16 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.0	12.1	1	03/08/16 13:35	03/08/16 18:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	14.0	1	03/08/16 13:35	03/08/16 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.0	10.9	1	03/08/16 13:35	03/08/16 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.0	12.8	1	03/08/16 13:35	03/08/16 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.0	13.0	1	03/08/16 13:35	03/08/16 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.0	20.3	1	03/08/16 13:35	03/08/16 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.0	9.4	1	03/08/16 13:35	03/08/16 18:50	156-60-5	
Dichlorofluoromethane	ND	ug/kg	570	53.6	1	03/08/16 13:35	03/08/16 18:50	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.0	11.6	1	03/08/16 13:35	03/08/16 18:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.0	8.9	1	03/08/16 13:35	03/08/16 18:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	23.0	1	03/08/16 13:35	03/08/16 18:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.0	11.4	1	03/08/16 13:35	03/08/16 18:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.0	5.9	1	03/08/16 13:35	03/08/16 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.0	22.1	1	03/08/16 13:35	03/08/16 18:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	18.6	1	03/08/16 13:35	03/08/16 18:50	60-29-7	
Ethylbenzene	ND	ug/kg	57.0	9.1	1	03/08/16 13:35	03/08/16 18:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	24.3	1	03/08/16 13:35	03/08/16 18:50	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: B21-S-93 **Lab ID: 10340392013** Collected: 03/02/16 13:05 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.0	10.4	1	03/08/16 13:35	03/08/16 18:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.0	10	1	03/08/16 13:35	03/08/16 18:50	99-87-6	
Methylene Chloride	ND	ug/kg	228	17.0	1	03/08/16 13:35	03/08/16 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	72.6	1	03/08/16 13:35	03/08/16 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.0	15.4	1	03/08/16 13:35	03/08/16 18:50	1634-04-4	
Naphthalene	ND	ug/kg	228	82.3	1	03/08/16 13:35	03/08/16 18:50	91-20-3	
n-Propylbenzene	ND	ug/kg	57.0	14.4	1	03/08/16 13:35	03/08/16 18:50	103-65-1	
Styrene	ND	ug/kg	57.0	9.1	1	03/08/16 13:35	03/08/16 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.0	11.0	1	03/08/16 13:35	03/08/16 18:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.0	10.9	1	03/08/16 13:35	03/08/16 18:50	79-34-5	
Tetrachloroethene	ND	ug/kg	57.0	11.8	1	03/08/16 13:35	03/08/16 18:50	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	90.3	1	03/08/16 13:35	03/08/16 18:50	109-99-9	
Toluene	ND	ug/kg	57.0	10.9	1	03/08/16 13:35	03/08/16 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.0	22.1	1	03/08/16 13:35	03/08/16 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.0	10.4	1	03/08/16 13:35	03/08/16 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.0	11.1	1	03/08/16 13:35	03/08/16 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.0	15.6	1	03/08/16 13:35	03/08/16 18:50	79-00-5	
Trichloroethene	ND	ug/kg	57.0	13.8	1	03/08/16 13:35	03/08/16 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	39.5	1	03/08/16 13:35	03/08/16 18:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	15.7	1	03/08/16 13:35	03/08/16 18:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	13.5	1	03/08/16 13:35	03/08/16 18:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.0	11.4	1	03/08/16 13:35	03/08/16 18:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.0	12.8	1	03/08/16 13:35	03/08/16 18:50	108-67-8	
Vinyl chloride	ND	ug/kg	57.0	10.3	1	03/08/16 13:35	03/08/16 18:50	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.1	1	03/08/16 13:35	03/08/16 18:50	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%.	75-129		1	03/08/16 13:35	03/08/16 18:50	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	03/08/16 13:35	03/08/16 18:50	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	75-125		1	03/08/16 13:35	03/08/16 18:50	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: TB-2 **Lab ID: 10340392014** Collected: 02/29/16 07:00 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1000	224	1	03/07/16 08:58	03/07/16 15:05	67-64-1	
Allyl chloride	ND	ug/kg	200	12.2	1	03/07/16 08:58	03/07/16 15:05	107-05-1	
Benzene	ND	ug/kg	20.0	10.6	1	03/07/16 08:58	03/07/16 15:05	71-43-2	
Bromobenzene	ND	ug/kg	50.0	12.1	1	03/07/16 08:58	03/07/16 15:05	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	9.6	1	03/07/16 08:58	03/07/16 15:05	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	03/07/16 08:58	03/07/16 15:05	75-27-4	
Bromoform	ND	ug/kg	500	11.9	1	03/07/16 08:58	03/07/16 15:05	75-25-2	
Bromomethane	ND	ug/kg	500	87.8	1	03/07/16 08:58	03/07/16 15:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	83.0	1	03/07/16 08:58	03/07/16 15:05	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	9.4	1	03/07/16 08:58	03/07/16 15:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	10.2	1	03/07/16 08:58	03/07/16 15:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	13.4	1	03/07/16 08:58	03/07/16 15:05	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	12.1	1	03/07/16 08:58	03/07/16 15:05	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	8.1	1	03/07/16 08:58	03/07/16 15:05	108-90-7	
Chloroethane	ND	ug/kg	500	23.9	1	03/07/16 08:58	03/07/16 15:05	75-00-3	
Chloroform	ND	ug/kg	50.0	8.4	1	03/07/16 08:58	03/07/16 15:05	67-66-3	
Chloromethane	ND	ug/kg	200	10.1	1	03/07/16 08:58	03/07/16 15:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.3	1	03/07/16 08:58	03/07/16 15:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	9.4	1	03/07/16 08:58	03/07/16 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	38.7	1	03/07/16 08:58	03/07/16 15:05	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	7.7	1	03/07/16 08:58	03/07/16 15:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	8.5	1	03/07/16 08:58	03/07/16 15:05	106-93-4	
Dibromomethane	ND	ug/kg	50.0	11.8	1	03/07/16 08:58	03/07/16 15:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	12.1	1	03/07/16 08:58	03/07/16 15:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	12.2	1	03/07/16 08:58	03/07/16 15:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	10.6	1	03/07/16 08:58	03/07/16 15:05	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	12.3	1	03/07/16 08:58	03/07/16 15:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	9.6	1	03/07/16 08:58	03/07/16 15:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.2	1	03/07/16 08:58	03/07/16 15:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	11.4	1	03/07/16 08:58	03/07/16 15:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	17.8	1	03/07/16 08:58	03/07/16 15:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	8.2	1	03/07/16 08:58	03/07/16 15:05	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	47.0	1	03/07/16 08:58	03/07/16 15:05	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	10.2	1	03/07/16 08:58	03/07/16 15:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	7.8	1	03/07/16 08:58	03/07/16 15:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	20.2	1	03/07/16 08:58	03/07/16 15:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.0	1	03/07/16 08:58	03/07/16 15:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	5.2	1	03/07/16 08:58	03/07/16 15:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	19.4	1	03/07/16 08:58	03/07/16 15:05	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	16.3	1	03/07/16 08:58	03/07/16 15:05	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	8.0	1	03/07/16 08:58	03/07/16 15:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	21.3	1	03/07/16 08:58	03/07/16 15:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	9.1	1	03/07/16 08:58	03/07/16 15:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	8.7	1	03/07/16 08:58	03/07/16 15:05	99-87-6	
Methylene Chloride	ND	ug/kg	200	14.9	1	03/07/16 08:58	03/07/16 15:05	75-09-2	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Sample: TB-2 **Lab ID: 10340392014** Collected: 02/29/16 07:00 Received: 03/03/16 15:28 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	63.6	1	03/07/16 08:58	03/07/16 15:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	13.5	1	03/07/16 08:58	03/07/16 15:05	1634-04-4	
Naphthalene	ND	ug/kg	200	72.1	1	03/07/16 08:58	03/07/16 15:05	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	12.6	1	03/07/16 08:58	03/07/16 15:05	103-65-1	
Styrene	ND	ug/kg	50.0	7.9	1	03/07/16 08:58	03/07/16 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/07/16 08:58	03/07/16 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/07/16 08:58	03/07/16 15:05	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	10.3	1	03/07/16 08:58	03/07/16 15:05	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	79.1	1	03/07/16 08:58	03/07/16 15:05	109-99-9	
Toluene	ND	ug/kg	50.0	9.6	1	03/07/16 08:58	03/07/16 15:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	19.4	1	03/07/16 08:58	03/07/16 15:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	03/07/16 08:58	03/07/16 15:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	9.7	1	03/07/16 08:58	03/07/16 15:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.7	1	03/07/16 08:58	03/07/16 15:05	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.1	1	03/07/16 08:58	03/07/16 15:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	34.6	1	03/07/16 08:58	03/07/16 15:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	13.8	1	03/07/16 08:58	03/07/16 15:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	11.8	1	03/07/16 08:58	03/07/16 15:05	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.0	1	03/07/16 08:58	03/07/16 15:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	11.2	1	03/07/16 08:58	03/07/16 15:05	108-67-8	
Vinyl chloride	ND	ug/kg	50.0	9.0	1	03/07/16 08:58	03/07/16 15:05	75-01-4	
Xylene (Total)	ND	ug/kg	150	29.9	1	03/07/16 08:58	03/07/16 15:05	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-129		1	03/07/16 08:58	03/07/16 15:05	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/07/16 08:58	03/07/16 15:05	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/07/16 08:58	03/07/16 15:05	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

QC Batch: MPRP/61842 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10340392001, 10340392002, 10340392003, 10340392004, 10340392005, 10340392006, 10340392007, 10340392008, 10340392009, 10340392010, 10340392011, 10340392012, 10340392013

SAMPLE DUPLICATE: 2205305

Parameter	Units	10340392010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.0	11.2	1	30	

SAMPLE DUPLICATE: 2205355

Parameter	Units	10340366001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	17.1	3	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

QC Batch: MSV/34820 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10340392001, 10340392002, 10340392003, 10340392004, 10340392005, 10340392014

METHOD BLANK: 2204734 Matrix: Solid
Associated Lab Samples: 10340392001, 10340392002, 10340392003, 10340392004, 10340392005, 10340392014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/07/16 14:29	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/07/16 14:29	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/07/16 14:29	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/07/16 14:29	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/07/16 14:29	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/07/16 14:29	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/07/16 14:29	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/07/16 14:29	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/07/16 14:29	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/07/16 14:29	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/07/16 14:29	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/07/16 14:29	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/07/16 14:29	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/07/16 14:29	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/07/16 14:29	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/07/16 14:29	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/07/16 14:29	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/07/16 14:29	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/07/16 14:29	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/07/16 14:29	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/07/16 14:29	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/07/16 14:29	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/07/16 14:29	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/07/16 14:29	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/07/16 14:29	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/07/16 14:29	
Acetone	ug/kg	ND	1000	224	03/07/16 14:29	
Allyl chloride	ug/kg	ND	200	12.2	03/07/16 14:29	
Benzene	ug/kg	ND	20.0	10.6	03/07/16 14:29	
Bromobenzene	ug/kg	ND	50.0	12.1	03/07/16 14:29	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/07/16 14:29	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/07/16 14:29	
Bromoform	ug/kg	ND	500	11.9	03/07/16 14:29	
Bromomethane	ug/kg	ND	500	87.8	03/07/16 14:29	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/07/16 14:29	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/07/16 14:29	
Chloroethane	ug/kg	ND	500	23.9	03/07/16 14:29	
Chloroform	ug/kg	ND	50.0	8.4	03/07/16 14:29	
Chloromethane	ug/kg	ND	200	10.1	03/07/16 14:29	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/07/16 14:29	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/07/16 14:29	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

METHOD BLANK: 2204734 Matrix: Solid
Associated Lab Samples: 10340392001, 10340392002, 10340392003, 10340392004, 10340392005, 10340392014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/07/16 14:29	
Dibromomethane	ug/kg	ND	50.0	11.8	03/07/16 14:29	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/07/16 14:29	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/07/16 14:29	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/07/16 14:29	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/07/16 14:29	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/07/16 14:29	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/07/16 14:29	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/07/16 14:29	
Methylene Chloride	ug/kg	ND	200	14.9	03/07/16 14:29	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/07/16 14:29	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/07/16 14:29	
Naphthalene	ug/kg	ND	200	72.1	03/07/16 14:29	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/07/16 14:29	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/07/16 14:29	
Styrene	ug/kg	ND	50.0	7.9	03/07/16 14:29	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/07/16 14:29	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/07/16 14:29	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/07/16 14:29	
Toluene	ug/kg	ND	50.0	9.6	03/07/16 14:29	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/07/16 14:29	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	19.4	03/07/16 14:29	
Trichloroethene	ug/kg	ND	50.0	12.1	03/07/16 14:29	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/07/16 14:29	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/07/16 14:29	
Xylene (Total)	ug/kg	ND	150	29.9	03/07/16 14:29	
1,2-Dichloroethane-d4 (S)	%.	104	75-129		03/07/16 14:29	
4-Bromofluorobenzene (S)	%.	94	75-125		03/07/16 14:29	
Toluene-d8 (S)	%.	97	75-125		03/07/16 14:29	

LABORATORY CONTROL SAMPLE: 2204735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1130	113	71-127	
1,1,1-Trichloroethane	ug/kg	1000	1010	101	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	876	88	50-138	
1,1,2-Trichloroethane	ug/kg	1000	991	99	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1070	107	53-144	
1,1-Dichloroethane	ug/kg	1000	1080	108	61-134	
1,1-Dichloroethene	ug/kg	1000	1020	102	57-135	
1,1-Dichloropropene	ug/kg	1000	976	98	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	1030	103	32-150	
1,2,3-Trichloropropane	ug/kg	1000	957	96	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	1020	102	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

LABORATORY CONTROL SAMPLE: 2204735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1010	101	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2310	93	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	978	98	69-130	
1,2-Dichlorobenzene	ug/kg	1000	981	98	72-125	
1,2-Dichloroethane	ug/kg	1000	987	99	62-125	
1,2-Dichloropropane	ug/kg	1000	1010	101	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	989	99	71-129	
1,3-Dichlorobenzene	ug/kg	1000	1000	100	72-126	
1,3-Dichloropropane	ug/kg	1000	936	94	70-125	
1,4-Dichlorobenzene	ug/kg	1000	1010	101	70-126	
2,2-Dichloropropane	ug/kg	1000	910	91	48-134	
2-Butanone (MEK)	ug/kg	5000	4590	92	38-149	
2-Chlorotoluene	ug/kg	1000	970	97	71-129	
4-Chlorotoluene	ug/kg	1000	988	99	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5440	109	52-145	
Acetone	ug/kg	5000	5390	108	65-142	
Allyl chloride	ug/kg	1000	1120	112	54-125	
Benzene	ug/kg	1000	942	94	64-125	
Bromobenzene	ug/kg	1000	1010	101	70-125	
Bromochloromethane	ug/kg	1000	998	100	68-125	
Bromodichloromethane	ug/kg	1000	1030	103	67-125	
Bromoform	ug/kg	1000	1010	101	56-127	
Bromomethane	ug/kg	1000	1030	103	34-137	
Carbon tetrachloride	ug/kg	1000	998	100	58-138	
Chlorobenzene	ug/kg	1000	1030	103	72-125	
Chloroethane	ug/kg	1000	1320	132	39-148	CH
Chloroform	ug/kg	1000	1000	100	67-125	
Chloromethane	ug/kg	1000	971	97	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	900	90	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	1050	105	62-127	
Dibromochloromethane	ug/kg	1000	979	98	67-125	
Dibromomethane	ug/kg	1000	1030	103	63-129	
Dichlorodifluoromethane	ug/kg	1000	672	67	34-139	
Dichlorofluoromethane	ug/kg	1000	1780	178	36-144	CH,L3
Diethyl ether (Ethyl ether)	ug/kg	1000	1020	102	51-125	
Ethylbenzene	ug/kg	1000	1010	101	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	1030	103	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	1070	107	75-127	
Methyl-tert-butyl ether	ug/kg	1000	986	99	61-125	
Methylene Chloride	ug/kg	1000	1020	102	60-126	
n-Butylbenzene	ug/kg	1000	1030	103	67-125	
n-Propylbenzene	ug/kg	1000	1030	103	72-133	
Naphthalene	ug/kg	1000	946	95	35-147	
p-Isopropyltoluene	ug/kg	1000	1040	104	69-127	
sec-Butylbenzene	ug/kg	1000	1020	102	70-127	
Styrene	ug/kg	1000	1040	104	73-125	
tert-Butylbenzene	ug/kg	1000	1010	101	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

LABORATORY CONTROL SAMPLE: 2204735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	972	97	66-135	
Tetrahydrofuran	ug/kg	10000	7780	78	66-145	
Toluene	ug/kg	1000	965	97	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	1050	105	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	996	100	67-125	
Trichloroethene	ug/kg	1000	987	99	62-141	
Trichlorofluoromethane	ug/kg	1000	1380	138	38-150	CH
Vinyl chloride	ug/kg	1000	892	89	57-131	
Xylene (Total)	ug/kg	3000	3080	103	73-128	
1,2-Dichloroethane-d4 (S)	%.			102	75-129	
4-Bromofluorobenzene (S)	%.			94	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE SAMPLE: 2204736

Parameter	Units	10340528001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1030	1160	114	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1030	1150	113	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1030	1100	107	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1030	1170	115	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1030	1230	121	41-150	
1,1-Dichloroethane	ug/kg	ND	1030	1150	113	53-131	
1,1-Dichloroethene	ug/kg	ND	1030	1130	110	41-133	
1,1-Dichloropropene	ug/kg	ND	1030	1070	105	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1030	1160	114	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1030	1050	103	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1030	1070	105	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1030	1140	111	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2550	2680	105	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1030	1120	110	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1030	1110	109	59-136	
1,2-Dichloroethane	ug/kg	ND	1030	1100	108	52-133	
1,2-Dichloropropane	ug/kg	ND	1030	1200	118	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1030	1150	113	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1030	1120	110	60-137	
1,3-Dichloropropane	ug/kg	ND	1030	1030	101	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1030	1120	109	51-132	
2,2-Dichloropropane	ug/kg	ND	1030	1050	103	50-134	
2-Butanone (MEK)	ug/kg	ND	5110	5120	100	46-125	
2-Chlorotoluene	ug/kg	ND	1030	1070	105	60-141	
4-Chlorotoluene	ug/kg	ND	1030	1100	108	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5110	6320	124	47-146	
Acetone	ug/kg	ND	5110	5870	115	45-148	
Allyl chloride	ug/kg	ND	1030	1260	124	50-135	
Benzene	ug/kg	ND	1030	1060	104	41-134	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

MATRIX SPIKE SAMPLE: 2204736

Parameter	Units	10340528001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1030	1170	115	59-134	
Bromochloromethane	ug/kg	ND	1030	1090	107	56-127	
Bromodichloromethane	ug/kg	ND	1030	1180	116	55-136	
Bromoform	ug/kg	ND	1030	1170	115	51-139	
Bromomethane	ug/kg	ND	1030	1080	103	35-148	
Carbon tetrachloride	ug/kg	ND	1030	1110	109	50-140	
Chlorobenzene	ug/kg	ND	1030	1140	112	59-133	
Chloroethane	ug/kg	ND	1030	1500	147	30-150	CH
Chloroform	ug/kg	ND	1030	1090	105	58-128	
Chloromethane	ug/kg	ND	1030	1130	111	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1030	1040	102	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1030	1200	118	57-133	
Dibromochloromethane	ug/kg	ND	1030	1160	113	54-141	
Dibromomethane	ug/kg	ND	1030	1200	118	53-134	
Dichlorodifluoromethane	ug/kg	ND	1030	726	71	30-125	
Dichlorofluoromethane	ug/kg	ND	1030	1840	180	30-150	CH,M1
Diethyl ether (Ethyl ether)	ug/kg	ND	1030	1140	112	46-137	
Ethylbenzene	ug/kg	ND	1030	1140	111	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1030	1080	106	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1030	1210	118	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1030	1120	110	53-133	
Methylene Chloride	ug/kg	ND	1030	1160	114	42-135	
n-Butylbenzene	ug/kg	ND	1030	1180	115	52-140	
n-Propylbenzene	ug/kg	ND	1030	1160	114	57-142	
Naphthalene	ug/kg	ND	1030	1080	106	41-150	
p-Isopropyltoluene	ug/kg	ND	1030	1180	116	54-139	
sec-Butylbenzene	ug/kg	ND	1030	1160	113	30-150	
Styrene	ug/kg	ND	1030	1160	113	53-137	
tert-Butylbenzene	ug/kg	ND	1030	1160	114	59-138	
Tetrachloroethene	ug/kg	ND	1030	1130	111	53-138	
Tetrahydrofuran	ug/kg	ND	10300	8780	86	50-145	
Toluene	ug/kg	ND	1030	1090	107	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1030	1140	112	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1030	1150	113	59-139	
Trichloroethene	ug/kg	ND	1030	1190	117	52-143	
Trichlorofluoromethane	ug/kg	ND	1030	1520	149	30-150	CH
Vinyl chloride	ug/kg	ND	1030	988	97	36-127	
Xylene (Total)	ug/kg	ND	3070	3440	112	56-137	
1,2-Dichloroethane-d4 (S)	%.				100	75-129	
4-Bromofluorobenzene (S)	%.				92	75-125	
Toluene-d8 (S)	%.				98	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

SAMPLE DUPLICATE: 2204737

Parameter	Units	10340528002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	14.7J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

SAMPLE DUPLICATE: 2204737

Parameter	Units	10340528002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	98	99	2		
4-Bromofluorobenzene (S)	%.	93	95	3		
Toluene-d8 (S)	%.	98	99	2		

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

QC Batch: MSV/34840 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10340392006, 10340392007, 10340392008, 10340392009, 10340392010, 10340392011, 10340392012, 10340392013

METHOD BLANK: 2205671 Matrix: Solid
Associated Lab Samples: 10340392006, 10340392007, 10340392008, 10340392009, 10340392010, 10340392011, 10340392012, 10340392013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/08/16 16:43	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/08/16 16:43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/08/16 16:43	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/08/16 16:43	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/08/16 16:43	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/08/16 16:43	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/08/16 16:43	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/08/16 16:43	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/08/16 16:43	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/08/16 16:43	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/08/16 16:43	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/08/16 16:43	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/08/16 16:43	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/08/16 16:43	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/08/16 16:43	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/08/16 16:43	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/08/16 16:43	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/08/16 16:43	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/08/16 16:43	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/08/16 16:43	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/08/16 16:43	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/08/16 16:43	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/08/16 16:43	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/08/16 16:43	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/08/16 16:43	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/08/16 16:43	
Acetone	ug/kg	ND	1000	224	03/08/16 16:43	
Allyl chloride	ug/kg	ND	200	12.2	03/08/16 16:43	
Benzene	ug/kg	ND	20.0	10.6	03/08/16 16:43	
Bromobenzene	ug/kg	ND	50.0	12.1	03/08/16 16:43	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/08/16 16:43	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/08/16 16:43	
Bromoform	ug/kg	ND	500	11.9	03/08/16 16:43	
Bromomethane	ug/kg	ND	500	87.8	03/08/16 16:43	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/08/16 16:43	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/08/16 16:43	
Chloroethane	ug/kg	ND	500	23.9	03/08/16 16:43	
Chloroform	ug/kg	ND	50.0	8.4	03/08/16 16:43	
Chloromethane	ug/kg	ND	200	10.1	03/08/16 16:43	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/08/16 16:43	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

METHOD BLANK: 2205671 Matrix: Solid

Associated Lab Samples: 10340392006, 10340392007, 10340392008, 10340392009, 10340392010, 10340392011, 10340392012, 10340392013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/08/16 16:43	
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/08/16 16:43	
Dibromomethane	ug/kg	ND	50.0	11.8	03/08/16 16:43	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/08/16 16:43	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/08/16 16:43	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/08/16 16:43	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/08/16 16:43	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/08/16 16:43	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/08/16 16:43	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/08/16 16:43	
Methylene Chloride	ug/kg	ND	200	14.9	03/08/16 16:43	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/08/16 16:43	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/08/16 16:43	
Naphthalene	ug/kg	ND	200	72.1	03/08/16 16:43	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/08/16 16:43	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/08/16 16:43	
Styrene	ug/kg	ND	50.0	7.9	03/08/16 16:43	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/08/16 16:43	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/08/16 16:43	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/08/16 16:43	
Toluene	ug/kg	ND	50.0	9.6	03/08/16 16:43	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/08/16 16:43	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	19.4	03/08/16 16:43	
Trichloroethene	ug/kg	ND	50.0	12.1	03/08/16 16:43	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/08/16 16:43	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/08/16 16:43	
Xylene (Total)	ug/kg	ND	150	29.9	03/08/16 16:43	
1,2-Dichloroethane-d4 (S)	%.	103	75-129		03/08/16 16:43	
4-Bromofluorobenzene (S)	%.	95	75-125		03/08/16 16:43	
Toluene-d8 (S)	%.	99	75-125		03/08/16 16:43	

LABORATORY CONTROL SAMPLE: 2205672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1010	101	71-127	
1,1,1-Trichloroethane	ug/kg	1000	998	100	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	833	83	50-138	
1,1,2-Trichloroethane	ug/kg	1000	977	98	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	963	96	53-144	
1,1-Dichloroethane	ug/kg	1000	992	99	61-134	
1,1-Dichloroethene	ug/kg	1000	952	95	57-135	
1,1-Dichloropropene	ug/kg	1000	905	91	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	936	94	32-150	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

LABORATORY CONTROL SAMPLE: 2205672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	912	91	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	885	89	38-138	
1,2,4-Trimethylbenzene	ug/kg	1000	921	92	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2160	86	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	944	94	69-130	
1,2-Dichlorobenzene	ug/kg	1000	894	89	72-125	
1,2-Dichloroethane	ug/kg	1000	935	94	62-125	
1,2-Dichloropropane	ug/kg	1000	1020	102	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	914	91	71-129	
1,3-Dichlorobenzene	ug/kg	1000	909	91	72-126	
1,3-Dichloropropane	ug/kg	1000	881	88	70-125	
1,4-Dichlorobenzene	ug/kg	1000	930	93	70-126	
2,2-Dichloropropane	ug/kg	1000	966	97	48-134	
2-Butanone (MEK)	ug/kg	5000	4490	90	38-149	
2-Chlorotoluene	ug/kg	1000	884	88	71-129	
4-Chlorotoluene	ug/kg	1000	915	91	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5450	109	52-145	
Acetone	ug/kg	5000	4530	91	65-142	
Allyl chloride	ug/kg	1000	1080	108	54-125	
Benzene	ug/kg	1000	896	90	64-125	
Bromobenzene	ug/kg	1000	923	92	70-125	
Bromochloromethane	ug/kg	1000	943	94	68-125	
Bromodichloromethane	ug/kg	1000	986	99	67-125	
Bromoform	ug/kg	1000	969	97	56-127	
Bromomethane	ug/kg	1000	1000	100	34-137	
Carbon tetrachloride	ug/kg	1000	903	90	58-138	
Chlorobenzene	ug/kg	1000	924	92	72-125	
Chloroethane	ug/kg	1000	1520	152	39-148	CH,L3
Chloroform	ug/kg	1000	944	94	67-125	
Chloromethane	ug/kg	1000	925	93	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	831	83	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	990	99	62-127	
Dibromochloromethane	ug/kg	1000	937	94	67-125	
Dibromomethane	ug/kg	1000	985	98	63-129	
Dichlorodifluoromethane	ug/kg	1000	555	55	34-139	
Dichlorofluoromethane	ug/kg	1000	1720	172	36-144	CH,L3
Diethyl ether (Ethyl ether)	ug/kg	1000	951	95	51-125	
Ethylbenzene	ug/kg	1000	951	95	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	946	95	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	996	100	75-127	
Methyl-tert-butyl ether	ug/kg	1000	937	94	61-125	
Methylene Chloride	ug/kg	1000	994	99	60-126	
n-Butylbenzene	ug/kg	1000	958	96	67-125	
n-Propylbenzene	ug/kg	1000	933	93	72-133	
Naphthalene	ug/kg	1000	827	83	35-147	
p-Isopropyltoluene	ug/kg	1000	943	94	69-127	
sec-Butylbenzene	ug/kg	1000	931	93	70-127	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

LABORATORY CONTROL SAMPLE: 2205672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	986	99	73-125	
tert-Butylbenzene	ug/kg	1000	953	95	71-130	
Tetrachloroethene	ug/kg	1000	916	92	66-135	
Tetrahydrofuran	ug/kg	10000	7070	71	66-145	
Toluene	ug/kg	1000	914	91	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	973	97	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	988	99	67-125	
Trichloroethene	ug/kg	1000	927	93	62-141	
Trichlorofluoromethane	ug/kg	1000	1460	146	38-150	CH
Vinyl chloride	ug/kg	1000	895	89	57-131	
Xylene (Total)	ug/kg	3000	2920	97	73-128	
1,2-Dichloroethane-d4 (S)	%.			103	75-129	
4-Bromofluorobenzene (S)	%.			90	75-125	
Toluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2205673 2205674

Parameter	Units	10340392010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1110	1140	1190	932	107	82	59-135	24	30	
1,1,1-Trichloroethane	ug/kg	ND	1110	1140	1120	885	101	78	51-137	23	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1110	1140	1030	840	93	74	40-149	20	30	
1,1,2-Trichloroethane	ug/kg	ND	1110	1140	1090	895	98	79	54-144	20	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1110	1140	1140	946	103	83	41-150	18	30	
1,1-Dichloroethane	ug/kg	ND	1110	1140	1170	952	106	84	53-131	21	30	
1,1-Dichloroethene	ug/kg	ND	1110	1140	1040	888	94	78	41-133	16	30	
1,1-Dichloropropene	ug/kg	ND	1110	1140	1060	834	96	73	50-139	24	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1110	1140	1050	847	95	75	52-150	22	30	
1,2,3-Trichloropropane	ug/kg	ND	1110	1140	1090	881	98	78	61-137	21	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1110	1140	1050	834	95	73	52-142	23	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1110	1140	1050	837	94	74	56-142	22	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2780	2840	2430	2020	88	71	47-143	19	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1110	1140	1060	900	96	79	57-136	17	30	
1,2-Dichlorobenzene	ug/kg	ND	1110	1140	1040	836	93	74	59-136	21	30	
1,2-Dichloroethane	ug/kg	ND	1110	1140	1080	933	98	82	52-133	15	30	
1,2-Dichloropropane	ug/kg	ND	1110	1140	1110	923	100	81	62-129	18	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1110	1140	1080	850	97	75	54-143	24	30	
1,3-Dichlorobenzene	ug/kg	ND	1110	1140	1040	845	94	74	60-137	21	30	
1,3-Dichloropropane	ug/kg	ND	1110	1140	1030	849	93	75	57-138	20	30	
1,4-Dichlorobenzene	ug/kg	ND	1110	1140	1070	914	96	80	51-132	16	30	
2,2-Dichloropropane	ug/kg	ND	1110	1140	1090	899	98	79	50-134	19	30	
2-Butanone (MEK)	ug/kg	ND	5540	5690	5450	4470	98	79	46-125	20	30	
2-Chlorotoluene	ug/kg	ND	1110	1140	1050	860	95	76	60-141	20	30	
4-Chlorotoluene	ug/kg	ND	1110	1140	1040	854	94	75	65-135	20	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2205673 2205674

Parameter	Units	10340392010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5540	5690	6160	5100	111	90	47-146	19	30	
Acetone	ug/kg	ND	5540	5690	5480	4390	99	77	45-148	22	30	
Allyl chloride	ug/kg	ND	1110	1140	1240	1020	112	90	50-135	19	30	
Benzene	ug/kg	ND	1110	1140	1040	857	94	75	41-134	19	30	
Bromobenzene	ug/kg	ND	1110	1140	1060	891	96	78	59-134	18	30	
Bromochloromethane	ug/kg	ND	1110	1140	1080	844	97	74	56-127	24	30	
Bromodichloromethane	ug/kg	ND	1110	1140	1160	936	105	82	55-136	21	30	
Bromoform	ug/kg	ND	1110	1140	1110	944	100	83	51-139	16	30	
Bromomethane	ug/kg	ND	1110	1140	982	1060	87	91	35-148	7	30	
Carbon tetrachloride	ug/kg	ND	1110	1140	1060	887	95	78	50-140	18	30	
Chlorobenzene	ug/kg	ND	1110	1140	1120	898	101	79	59-133	22	30	
Chloroethane	ug/kg	ND	1110	1140	1220	1500	110	132	30-150	21	30	CH
Chloroform	ug/kg	ND	1110	1140	1090	878	97	76	58-128	22	30	
Chloromethane	ug/kg	ND	1110	1140	848	1060	76	93	38-125	22	30	
cis-1,2-Dichloroethene	ug/kg	ND	1110	1140	1000	821	90	72	59-125	20	30	
cis-1,3-Dichloropropene	ug/kg	ND	1110	1140	1190	899	107	79	57-133	27	30	
Dibromochloromethane	ug/kg	ND	1110	1140	1030	868	93	76	54-141	17	30	
Dibromomethane	ug/kg	ND	1110	1140	1130	888	102	78	53-134	24	30	
Dichlorodifluoromethane	ug/kg	ND	1110	1140	415	526	37	46	30-125	24	30	
Dichlorofluoromethane	ug/kg	ND	1110	1140	1490	1850	134	163	30-150	22	30	CH,M1
Diethyl ether (Ethyl ether)	ug/kg	ND	1110	1140	1090	941	99	83	46-137	15	30	
Ethylbenzene	ug/kg	ND	1110	1140	1100	896	99	79	56-141	20	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1110	1140	1120	964	101	85	45-150	15	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1110	1140	1170	920	106	81	48-141	24	30	
Methyl-tert-butyl ether	ug/kg	ND	1110	1140	1110	911	100	80	53-133	19	30	
Methylene Chloride	ug/kg	ND	1110	1140	1170	909	100	75	42-135	25	30	
n-Butylbenzene	ug/kg	ND	1110	1140	1130	933	102	82	52-140	19	30	
n-Propylbenzene	ug/kg	ND	1110	1140	1100	892	99	78	57-142	21	30	
Naphthalene	ug/kg	ND	1110	1140	987	817	89	72	41-150	19	30	
p-Isopropyltoluene	ug/kg	ND	1110	1140	1140	888	103	78	54-139	25	30	
sec-Butylbenzene	ug/kg	ND	1110	1140	1090	902	99	79	30-150	19	30	
Styrene	ug/kg	ND	1110	1140	1100	908	99	80	53-137	19	30	
tert-Butylbenzene	ug/kg	ND	1110	1140	1080	891	98	78	59-138	20	30	
Tetrachloroethene	ug/kg	ND	1110	1140	1090	924	98	81	53-138	16	30	
Tetrahydrofuran	ug/kg	ND	11100	11400	8330	6810	75	60	50-145	20	30	
Toluene	ug/kg	ND	1110	1140	1060	864	96	76	55-134	21	30	
trans-1,2-Dichloroethene	ug/kg	ND	1110	1140	1100	974	99	86	44-135	12	30	
trans-1,3-Dichloropropene	ug/kg	ND	1110	1140	1120	917	101	81	59-139	20	30	
Trichloroethene	ug/kg	ND	1110	1140	1100	902	99	79	52-143	20	30	
Trichlorofluoromethane	ug/kg	ND	1110	1140	1390	1590	125	140	30-150	14	30	CH
Vinyl chloride	ug/kg	ND	1110	1140	814	996	73	88	36-127	20	30	
Xylene (Total)	ug/kg	ND	3330	3410	3280	2680	98	79	56-137	20	30	
1,2-Dichloroethane-d4 (S)	%.						103	104	75-129			
4-Bromofluorobenzene (S)	%.						93	93	75-125			
Toluene-d8 (S)	%.						99	101	75-125			

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QUALIFIERS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10340392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10340392001	**B31-S-33**	ASTM D2974	MPRP/61842		
10340392002	**B31-S-47**	ASTM D2974	MPRP/61842		
10340392003	**B31-S-52**	ASTM D2974	MPRP/61842		
10340392004	**B31-S-53**	ASTM D2974	MPRP/61842		
10340392005	**B31-S-83**	ASTM D2974	MPRP/61842		
10340392006	**B22-S-32**	ASTM D2974	MPRP/61842		
10340392007	**B22-S-79**	ASTM D2974	MPRP/61842		
10340392008	**B22-S-89**	ASTM D2974	MPRP/61842		
10340392009	**B21-S-30**	ASTM D2974	MPRP/61842		
10340392010	**B21-S-47**	ASTM D2974	MPRP/61842		
10340392011	**B21-S-53**	ASTM D2974	MPRP/61842		
10340392012	**B21-S-78**	ASTM D2974	MPRP/61842		
10340392013	**B21-S-93**	ASTM D2974	MPRP/61842		
10340392001	**B31-S-33**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836
10340392002	**B31-S-47**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836
10340392003	**B31-S-52**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836
10340392004	**B31-S-53**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836
10340392005	**B31-S-83**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836
10340392006	**B22-S-32**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392007	**B22-S-79**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392008	**B22-S-89**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392009	**B21-S-30**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392010	**B21-S-47**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392011	**B21-S-53**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392012	**B21-S-78**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392013	**B21-S-93**	EPA 5035/5030B	MSV/34840	EPA 8260B	MSV/34845
10340392014	**TB-2**	EPA 5035/5030B	MSV/34820	EPA 8260B	MSV/34836

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

C040392

Page: 1 of 2

2022567

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle Ave
Minneapolis, MN 55402
Email To: Tony.Coryell@aecom.com
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: Tony Coryell
Copy To: Benjamin.Klaus@aecom.com
Purchase Order No.:
Project Name: SLP Solvent Plume
Project Number: 60482513

Section C Invoice Information:

Attention: Tony Coryell
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: Carol Davy
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC 8260	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B31-S-33	SL	G			2/29/16	1105		3	1						2		2	1		w1
2	B31-S-47	SL	G			2/29/16	1110		3	1						2		2	1		w2
3	B31-S-52	SL	G			2/29/16	1115		3	1						2		2	1		w3
4	B31-S-53	SL	G			2/29/16	1120		3	1						2		2	1		w4
5	B31-S-83	SL	G			2/29/16	1215		3	1						2		2	1		w5
6	B22-S-32	SL	G			3/1/16	1115		3	1						2		2	1		w6
7	B22-S-79	SL	G			3/1/16	1415		3	1						2		2	1		w7
8	B22-S-89	SL	G			3/1/16	1440		3	1						2		2	1		w8
9	B21-S-30	SL	G			3/2/16	1240		3	1						2		2	1		w9
10	B21-S-47	SL	G			3/2/16	1245		3	1						2		2	1		w10
11	B21-S-47 MS	SL	G			3/2/16	1330		3	1						2		2	1		~~w11~~
12	B21-S-47 MSD	SL	G			3/2/16	1330		3	1						2		2	1		~~w12~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Melissa Meemsen/AECOM	3/3/16	1528	[signature]	3/3/16	1528	1.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Melissa Meemsen

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/3/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1988901

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM	Report To: TONY.CORYELL@AECOM.COM	Attention: TONY CORYELL
Address: 800 LASALLE	Copy To: BENJAMIN.KLAUS@AECOM.COM	Company Name: AECOM
MINNEAPOLIS MN 55402		Address:
Email To: TONY.CORYELL@AECOM.COM	Purchase Order No.:	Pace Quote Reference:
Phone: 612-376-2000 Fax:	Project Name: SLP SOLVENT PLUME	Pace Project Manager: CAROL DAVY
Requested Due Date/TAT: NORMAL	Project Number: 60482513	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC (8260)	MOISTURE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B21-S-53	SL	G			3/2/16	1250		3	1						2			2	1		.11
2	B21-S-78	SL	G			3/2/16	1255		3	1						2			2	1		.12
3	B21-S-93	SL	G			3/2/16	1305		3	1						2			2	1		.13
4	TB-2					2/29/16	700									1			1			.14
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	MELISSA MEEHUSEN / AECOM	3/3/16	1528	[signature] PAC	3/3/16	1528	1.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MELISSA MEEHUSEN

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/3/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO#: 10340392 (10340392)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:_____

Tracking Number: —

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ 151401164 ☐ B88A912167504 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.1 **Cooler Temp Corrected (°C):** 1.2 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** CMB 3/3/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Solid	☐ Yes	☑ No	☐ N/A	12. Time on sample 6 is 13:15
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed:_____ Lot # of added preservative:_____
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 3/4/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 23, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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CERTIFICATIONS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10341254001	**B28-S-58**	Solid	03/07/16 13:25	03/11/16 14:10
10341254002	**B28-S-64**	Solid	03/07/16 13:40	03/11/16 14:10
10341254003	**B28-S-72**	Solid	03/07/16 14:10	03/11/16 14:10
10341254004	**B28-S-23**	Solid	03/07/16 13:15	03/11/16 14:10
10341254005	**B26-S-34**	Solid	03/08/16 12:20	03/11/16 14:10
10341254006	**B26-S-47**	Solid	03/08/16 13:15	03/11/16 14:10
10341254007	**B26-S-53**	Solid	03/08/16 13:30	03/11/16 14:10
10341254008	**B26-S-58**	Solid	03/08/16 13:45	03/11/16 14:10
10341254009	**B26-S-73**	Solid	03/08/16 14:25	03/11/16 14:10
10341254010	**DUP-S-3**	Solid	03/08/16 13:25	03/11/16 14:10
10341254011	**DUP-S-4**	Solid	03/08/16 13:55	03/11/16 14:10
10341254012	**TRIP BLANK-3**	Solid	03/07/16 07:00	03/11/16 14:10
10341254013	**B25-S-49**	Solid	03/11/16 12:30	03/11/16 14:10
10341254014	**B25-S-50**	Solid	03/11/16 12:35	03/11/16 14:10
10341254015	**B25-S-53**	Solid	03/11/16 12:45	03/11/16 14:10
10341254016	**DUP-S-4**	Solid	03/11/16 12:50	03/11/16 14:10
10341254017	**B25-S-55**	Solid	03/11/16 12:55	03/11/16 14:10
10341254018	**DUP-S-5**	Solid	03/11/16 13:00	03/11/16 14:10
10341254019	**B25-S-58**	Solid	03/11/16 13:05	03/11/16 14:10
10341254020	**B25-S-65**	Solid	03/11/16 13:10	03/11/16 14:10
10341254021	**B25-S-84**	Solid	03/11/16 13:15	03/11/16 14:10

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10341254001	**B28-S-58**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10341254002	**B28-S-64**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10341254003	**B28-S-72**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10341254004	**B28-S-23**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10341254005	**B26-S-34**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254006	**B26-S-47**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254007	**B26-S-53**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254008	**B26-S-58**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254009	**B26-S-73**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254010	**DUP-S-3**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254011	**DUP-S-4**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254012	**TRIP BLANK-3**	EPA 8260B	CD2	70
10341254013	**B25-S-49**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254014	**B25-S-50**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254015	**B25-S-53**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254016	**DUP-S-4**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254017	**B25-S-55**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254018	**DUP-S-5**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254019	**B25-S-58**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10341254020	**B25-S-65**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10341254021	**B25-S-84**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10341254001	**B28-S-58**					
ASTM D2974	Percent Moisture	19.6	%	0.10	03/15/16 10:29	
10341254002	**B28-S-64**					
ASTM D2974	Percent Moisture	15.2	%	0.10	03/15/16 10:29	
10341254003	**B28-S-72**					
ASTM D2974	Percent Moisture	14.4	%	0.10	03/15/16 10:29	
10341254004	**B28-S-23**					
ASTM D2974	Percent Moisture	11.4	%	0.10	03/15/16 10:30	
10341254005	**B26-S-34**					
ASTM D2974	Percent Moisture	13.4	%	0.10	03/15/16 10:30	
10341254006	**B26-S-47**					
ASTM D2974	Percent Moisture	15.2	%	0.10	03/15/16 11:04	
10341254007	**B26-S-53**					
ASTM D2974	Percent Moisture	16.3	%	0.10	03/15/16 11:04	
10341254008	**B26-S-58**					
ASTM D2974	Percent Moisture	14.7	%	0.10	03/15/16 11:05	
10341254009	**B26-S-73**					
ASTM D2974	Percent Moisture	9.3	%	0.10	03/15/16 11:05	
10341254010	**DUP-S-3**					
ASTM D2974	Percent Moisture	16.8	%	0.10	03/15/16 11:05	
10341254011	**DUP-S-4**					
ASTM D2974	Percent Moisture	14.9	%	0.10	03/15/16 11:05	
10341254013	**B25-S-49**					
ASTM D2974	Percent Moisture	12.2	%	0.10	03/15/16 11:06	
10341254014	**B25-S-50**					
ASTM D2974	Percent Moisture	13.2	%	0.10	03/15/16 11:06	
EPA 8260B	Tetrachloroethene	70.3	ug/kg	56.6	03/16/16 17:39	
10341254015	**B25-S-53**					
ASTM D2974	Percent Moisture	13.4	%	0.10	03/15/16 11:06	
EPA 8260B	Tetrachloroethene	152	ug/kg	57.2	03/16/16 17:57	
10341254016	**DUP-S-4**					
ASTM D2974	Percent Moisture	14.0	%	0.10	03/15/16 11:06	
EPA 8260B	Tetrachloroethene	116	ug/kg	56.0	03/16/16 18:15	
10341254017	**B25-S-55**					
ASTM D2974	Percent Moisture	16.3	%	0.10	03/15/16 11:07	
EPA 8260B	Tetrachloroethene	99.6	ug/kg	59.9	03/16/16 18:33	
10341254018	**DUP-S-5**					
ASTM D2974	Percent Moisture	15.7	%	0.10	03/15/16 11:07	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10341254018	**DUP-S-5**					
EPA 8260B	Tetrachloroethene	86.2	ug/kg	59.3	03/16/16 18:51	
10341254019	**B25-S-58**					
ASTM D2974	Percent Moisture	13.9	%	0.10	03/15/16 11:07	
EPA 8260B	cis-1,2-Dichloroethene	1050	ug/kg	55.9	03/16/16 19:09	
EPA 8260B	trans-1,2-Dichloroethene	77.3	ug/kg	55.9	03/16/16 19:09	
EPA 8260B	Tetrachloroethene	992	ug/kg	55.9	03/16/16 19:09	
EPA 8260B	Trichloroethene	226	ug/kg	55.9	03/16/16 19:09	
10341254020	**B25-S-65**					
ASTM D2974	Percent Moisture	13.2	%	0.10	03/15/16 11:07	
EPA 8260B	cis-1,2-Dichloroethene	85.3	ug/kg	58.8	03/16/16 19:28	
EPA 8260B	Tetrachloroethene	62.2	ug/kg	58.8	03/16/16 19:28	
10341254021	**B25-S-84**					
ASTM D2974	Percent Moisture	15.5	%	0.10	03/15/16 11:08	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 23, 2016

General Information:
21 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- B28-S-23 (Lab ID: 10341254004)
- B28-S-58 (Lab ID: 10341254001)
- B28-S-64 (Lab ID: 10341254002)
- B28-S-72 (Lab ID: 10341254003)
- TRIP BLANK-3 (Lab ID: 10341254012)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34882

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
- LCS (Lab ID: 2209219)
  - Dichlorofluoromethane
- MS (Lab ID: 2209324)
  - Dichlorofluoromethane

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34882

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2209219)
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MS (Lab ID: 2209324)
  - Dichlorofluoromethane
  - Trichlorofluoromethane

QC Batch: MSV/34929

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2213054)
  - Dichlorofluoromethane
- LCSD (Lab ID: 2214128)
  - Diethyl ether (Ethyl ether)

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 23, 2016

QC Batch: MSV/34929

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- MS (Lab ID: 2213055)
  - Dichlorofluoromethane
  - Diethyl ether (Ethyl ether)

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/34882

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2209219)
  - Bromodichloromethane
  - Dibromochloromethane

QC Batch: MSV/34929

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2213054)
  - Dichlorofluoromethane
  - Diethyl ether (Ethyl ether)
- LCSD (Lab ID: 2214128)
  - Dichlorofluoromethane

R1: RPD value was outside control limits.

- LCSD (Lab ID: 2214128)
  - Dichlorofluoromethane
  - Trichlorofluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34882

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10341255001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2209324)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 23, 2016

QC Batch: MSV/34929

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10341721001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2213055)
  - Dichlorofluoromethane
  - Diethyl ether (Ethyl ether)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: MSV/34893

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2209807)
  - Naphthalene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-58 **Lab ID: 10341254001** Collected: 03/07/16 13:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**19.6**	%	0.10	0.10	1		03/15/16 10:29		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	269	1	03/14/16 13:29	03/14/16 18:36	67-64-1	
Allyl chloride	ND	ug/kg	240	14.6	1	03/14/16 13:29	03/14/16 18:36	107-05-1	
Benzene	ND	ug/kg	24.0	8.4	1	03/14/16 13:29	03/14/16 18:36	71-43-2	
Bromobenzene	ND	ug/kg	60.0	14.5	1	03/14/16 13:29	03/14/16 18:36	108-86-1	
Bromochloromethane	ND	ug/kg	60.0	11.5	1	03/14/16 13:29	03/14/16 18:36	74-97-5	
Bromodichloromethane	ND	ug/kg	60.0	10.7	1	03/14/16 13:29	03/14/16 18:36	75-27-4	L2
Bromoform	ND	ug/kg	600	14.3	1	03/14/16 13:29	03/14/16 18:36	75-25-2	
Bromomethane	ND	ug/kg	600	105	1	03/14/16 13:29	03/14/16 18:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	300	99.6	1	03/14/16 13:29	03/14/16 18:36	78-93-3	
n-Butylbenzene	ND	ug/kg	60.0	11.3	1	03/14/16 13:29	03/14/16 18:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.0	12.2	1	03/14/16 13:29	03/14/16 18:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.0	16.1	1	03/14/16 13:29	03/14/16 18:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	240	14.5	1	03/14/16 13:29	03/14/16 18:36	56-23-5	
Chlorobenzene	ND	ug/kg	60.0	9.7	1	03/14/16 13:29	03/14/16 18:36	108-90-7	
Chloroethane	ND	ug/kg	600	28.7	1	03/14/16 13:29	03/14/16 18:36	75-00-3	
Chloroform	ND	ug/kg	60.0	10.0	1	03/14/16 13:29	03/14/16 18:36	67-66-3	
Chloromethane	ND	ug/kg	240	12.1	1	03/14/16 13:29	03/14/16 18:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.0	12.4	1	03/14/16 13:29	03/14/16 18:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.0	11.3	1	03/14/16 13:29	03/14/16 18:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	600	46.4	1	03/14/16 13:29	03/14/16 18:36	96-12-8	
Dibromochloromethane	ND	ug/kg	240	9.3	1	03/14/16 13:29	03/14/16 18:36	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	60.0	9.6	1	03/14/16 13:29	03/14/16 18:36	106-93-4	
Dibromomethane	ND	ug/kg	60.0	14.2	1	03/14/16 13:29	03/14/16 18:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.0	14.5	1	03/14/16 13:29	03/14/16 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.0	14.6	1	03/14/16 13:29	03/14/16 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.0	12.7	1	03/14/16 13:29	03/14/16 18:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	240	14.8	1	03/14/16 13:29	03/14/16 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.0	11.5	1	03/14/16 13:29	03/14/16 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.0	13.4	1	03/14/16 13:29	03/14/16 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.0	13.7	1	03/14/16 13:29	03/14/16 18:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.0	21.4	1	03/14/16 13:29	03/14/16 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.0	9.9	1	03/14/16 13:29	03/14/16 18:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	600	56.4	1	03/14/16 13:29	03/14/16 18:36	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.0	12.2	1	03/14/16 13:29	03/14/16 18:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.0	9.4	1	03/14/16 13:29	03/14/16 18:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	240	24.2	1	03/14/16 13:29	03/14/16 18:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.0	12.0	1	03/14/16 13:29	03/14/16 18:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.0	6.2	1	03/14/16 13:29	03/14/16 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	60.0	23.3	1	03/14/16 13:29	03/14/16 18:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	240	19.6	1	03/14/16 13:29	03/14/16 18:36	60-29-7	
Ethylbenzene	ND	ug/kg	60.0	9.0	1	03/14/16 13:29	03/14/16 18:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	300	25.6	1	03/14/16 13:29	03/14/16 18:36	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-58 **Lab ID: 10341254001** Collected: 03/07/16 13:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.0	10.9	1	03/14/16 13:29	03/14/16 18:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.0	10.5	1	03/14/16 13:29	03/14/16 18:36	99-87-6	
Methylene Chloride	ND	ug/kg	240	17.9	1	03/14/16 13:29	03/14/16 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	300	76.3	1	03/14/16 13:29	03/14/16 18:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.0	11.2	1	03/14/16 13:29	03/14/16 18:36	1634-04-4	
Naphthalene	ND	ug/kg	240	86.5	1	03/14/16 13:29	03/14/16 18:36	91-20-3	
n-Propylbenzene	ND	ug/kg	60.0	12.8	1	03/14/16 13:29	03/14/16 18:36	103-65-1	
Styrene	ND	ug/kg	60.0	9.5	1	03/14/16 13:29	03/14/16 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.0	11.5	1	03/14/16 13:29	03/14/16 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.0	11.5	1	03/14/16 13:29	03/14/16 18:36	79-34-5	
Tetrachloroethene	ND	ug/kg	60.0	12.4	1	03/14/16 13:29	03/14/16 18:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2400	94.9	1	03/14/16 13:29	03/14/16 18:36	109-99-9	
Toluene	ND	ug/kg	60.0	11.5	1	03/14/16 13:29	03/14/16 18:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.0	23.3	1	03/14/16 13:29	03/14/16 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.0	10.9	1	03/14/16 13:29	03/14/16 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.0	11.7	1	03/14/16 13:29	03/14/16 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.0	16.4	1	03/14/16 13:29	03/14/16 18:36	79-00-5	
Trichloroethene	ND	ug/kg	60.0	14.5	1	03/14/16 13:29	03/14/16 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	240	41.5	1	03/14/16 13:29	03/14/16 18:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	240	16.6	1	03/14/16 13:29	03/14/16 18:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	240	14.2	1	03/14/16 13:29	03/14/16 18:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.0	12.0	1	03/14/16 13:29	03/14/16 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.0	11.6	1	03/14/16 13:29	03/14/16 18:36	108-67-8	
Vinyl chloride	ND	ug/kg	24.0	10.8	1	03/14/16 13:29	03/14/16 18:36	75-01-4	
Xylene (Total)	ND	ug/kg	180	35.9	1	03/14/16 13:29	03/14/16 18:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	119	%.	75-129		1	03/14/16 13:29	03/14/16 18:36	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/14/16 13:29	03/14/16 18:36	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	75-125		1	03/14/16 13:29	03/14/16 18:36	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-64 **Lab ID: 10341254002** Collected: 03/07/16 13:40 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.2**	%	0.10	0.10	1		03/15/16 10:29		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1230	276	1	03/14/16 13:29	03/14/16 18:52	67-64-1	
Allyl chloride	ND	ug/kg	247	15.1	1	03/14/16 13:29	03/14/16 18:52	107-05-1	
Benzene	ND	ug/kg	24.7	8.6	1	03/14/16 13:29	03/14/16 18:52	71-43-2	
Bromobenzene	ND	ug/kg	61.7	14.9	1	03/14/16 13:29	03/14/16 18:52	108-86-1	
Bromochloromethane	ND	ug/kg	61.7	11.8	1	03/14/16 13:29	03/14/16 18:52	74-97-5	
Bromodichloromethane	ND	ug/kg	61.7	11.0	1	03/14/16 13:29	03/14/16 18:52	75-27-4	L2
Bromoform	ND	ug/kg	617	14.7	1	03/14/16 13:29	03/14/16 18:52	75-25-2	
Bromomethane	ND	ug/kg	617	108	1	03/14/16 13:29	03/14/16 18:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	308	102	1	03/14/16 13:29	03/14/16 18:52	78-93-3	
n-Butylbenzene	ND	ug/kg	61.7	11.6	1	03/14/16 13:29	03/14/16 18:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.7	12.6	1	03/14/16 13:29	03/14/16 18:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.7	16.5	1	03/14/16 13:29	03/14/16 18:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	247	14.9	1	03/14/16 13:29	03/14/16 18:52	56-23-5	
Chlorobenzene	ND	ug/kg	61.7	10.0	1	03/14/16 13:29	03/14/16 18:52	108-90-7	
Chloroethane	ND	ug/kg	617	29.5	1	03/14/16 13:29	03/14/16 18:52	75-00-3	
Chloroform	ND	ug/kg	61.7	10.3	1	03/14/16 13:29	03/14/16 18:52	67-66-3	
Chloromethane	ND	ug/kg	247	12.5	1	03/14/16 13:29	03/14/16 18:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.7	12.7	1	03/14/16 13:29	03/14/16 18:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.7	11.6	1	03/14/16 13:29	03/14/16 18:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	617	47.8	1	03/14/16 13:29	03/14/16 18:52	96-12-8	
Dibromochloromethane	ND	ug/kg	247	9.6	1	03/14/16 13:29	03/14/16 18:52	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	61.7	9.9	1	03/14/16 13:29	03/14/16 18:52	106-93-4	
Dibromomethane	ND	ug/kg	61.7	14.6	1	03/14/16 13:29	03/14/16 18:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.7	14.9	1	03/14/16 13:29	03/14/16 18:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.7	15.1	1	03/14/16 13:29	03/14/16 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.7	13.1	1	03/14/16 13:29	03/14/16 18:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	247	15.2	1	03/14/16 13:29	03/14/16 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.7	11.8	1	03/14/16 13:29	03/14/16 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.7	13.8	1	03/14/16 13:29	03/14/16 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.7	14.1	1	03/14/16 13:29	03/14/16 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.7	22.0	1	03/14/16 13:29	03/14/16 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.7	10.1	1	03/14/16 13:29	03/14/16 18:52	156-60-5	
Dichlorofluoromethane	ND	ug/kg	617	58.0	1	03/14/16 13:29	03/14/16 18:52	75-43-4	
1,2-Dichloropropane	ND	ug/kg	61.7	12.6	1	03/14/16 13:29	03/14/16 18:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.7	9.7	1	03/14/16 13:29	03/14/16 18:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	247	24.9	1	03/14/16 13:29	03/14/16 18:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.7	12.3	1	03/14/16 13:29	03/14/16 18:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	61.7	6.4	1	03/14/16 13:29	03/14/16 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	61.7	23.9	1	03/14/16 13:29	03/14/16 18:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	247	20.1	1	03/14/16 13:29	03/14/16 18:52	60-29-7	
Ethylbenzene	ND	ug/kg	61.7	9.2	1	03/14/16 13:29	03/14/16 18:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	308	26.3	1	03/14/16 13:29	03/14/16 18:52	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-64 **Lab ID: 10341254002** Collected: 03/07/16 13:40 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	61.7	11.2	1	03/14/16 13:29	03/14/16 18:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.7	10.8	1	03/14/16 13:29	03/14/16 18:52	99-87-6	
Methylene Chloride	ND	ug/kg	247	18.4	1	03/14/16 13:29	03/14/16 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	308	78.5	1	03/14/16 13:29	03/14/16 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.7	11.6	1	03/14/16 13:29	03/14/16 18:52	1634-04-4	
Naphthalene	ND	ug/kg	247	89.0	1	03/14/16 13:29	03/14/16 18:52	91-20-3	
n-Propylbenzene	ND	ug/kg	61.7	13.2	1	03/14/16 13:29	03/14/16 18:52	103-65-1	
Styrene	ND	ug/kg	61.7	9.8	1	03/14/16 13:29	03/14/16 18:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	61.7	11.9	1	03/14/16 13:29	03/14/16 18:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.7	11.8	1	03/14/16 13:29	03/14/16 18:52	79-34-5	
Tetrachloroethene	ND	ug/kg	61.7	12.7	1	03/14/16 13:29	03/14/16 18:52	127-18-4	
Tetrahydrofuran	ND	ug/kg	2470	97.6	1	03/14/16 13:29	03/14/16 18:52	109-99-9	
Toluene	ND	ug/kg	61.7	11.8	1	03/14/16 13:29	03/14/16 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.7	23.9	1	03/14/16 13:29	03/14/16 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	61.7	11.2	1	03/14/16 13:29	03/14/16 18:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	61.7	12.0	1	03/14/16 13:29	03/14/16 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.7	16.9	1	03/14/16 13:29	03/14/16 18:52	79-00-5	
Trichloroethene	ND	ug/kg	61.7	14.9	1	03/14/16 13:29	03/14/16 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	247	42.7	1	03/14/16 13:29	03/14/16 18:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	247	17.0	1	03/14/16 13:29	03/14/16 18:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	247	14.6	1	03/14/16 13:29	03/14/16 18:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.7	12.3	1	03/14/16 13:29	03/14/16 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.7	11.9	1	03/14/16 13:29	03/14/16 18:52	108-67-8	
Vinyl chloride	ND	ug/kg	24.7	11.1	1	03/14/16 13:29	03/14/16 18:52	75-01-4	
Xylene (Total)	ND	ug/kg	185	36.9	1	03/14/16 13:29	03/14/16 18:52	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	113	%.	75-129		1	03/14/16 13:29	03/14/16 18:52	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/14/16 13:29	03/14/16 18:52	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	75-125		1	03/14/16 13:29	03/14/16 18:52	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-72 **Lab ID: 10341254003** Collected: 03/07/16 14:10 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.4**	%	0.10	0.10	1		03/15/16 10:29		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	263	1	03/14/16 13:29	03/14/16 19:09	67-64-1	
Allyl chloride	ND	ug/kg	235	14.3	1	03/14/16 13:29	03/14/16 19:09	107-05-1	
Benzene	ND	ug/kg	23.5	8.2	1	03/14/16 13:29	03/14/16 19:09	71-43-2	
Bromobenzene	ND	ug/kg	58.8	14.2	1	03/14/16 13:29	03/14/16 19:09	108-86-1	
Bromochloromethane	ND	ug/kg	58.8	11.3	1	03/14/16 13:29	03/14/16 19:09	74-97-5	
Bromodichloromethane	ND	ug/kg	58.8	10.5	1	03/14/16 13:29	03/14/16 19:09	75-27-4	L2
Bromoform	ND	ug/kg	588	14.0	1	03/14/16 13:29	03/14/16 19:09	75-25-2	
Bromomethane	ND	ug/kg	588	103	1	03/14/16 13:29	03/14/16 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	97.6	1	03/14/16 13:29	03/14/16 19:09	78-93-3	
n-Butylbenzene	ND	ug/kg	58.8	11.1	1	03/14/16 13:29	03/14/16 19:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.8	12.0	1	03/14/16 13:29	03/14/16 19:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.8	15.8	1	03/14/16 13:29	03/14/16 19:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	235	14.2	1	03/14/16 13:29	03/14/16 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	58.8	9.5	1	03/14/16 13:29	03/14/16 19:09	108-90-7	
Chloroethane	ND	ug/kg	588	28.1	1	03/14/16 13:29	03/14/16 19:09	75-00-3	
Chloroform	ND	ug/kg	58.8	9.8	1	03/14/16 13:29	03/14/16 19:09	67-66-3	
Chloromethane	ND	ug/kg	235	11.9	1	03/14/16 13:29	03/14/16 19:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.8	12.1	1	03/14/16 13:29	03/14/16 19:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.8	11.0	1	03/14/16 13:29	03/14/16 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	588	45.5	1	03/14/16 13:29	03/14/16 19:09	96-12-8	
Dibromochloromethane	ND	ug/kg	235	9.1	1	03/14/16 13:29	03/14/16 19:09	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	58.8	9.5	1	03/14/16 13:29	03/14/16 19:09	106-93-4	
Dibromomethane	ND	ug/kg	58.8	13.9	1	03/14/16 13:29	03/14/16 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.8	14.2	1	03/14/16 13:29	03/14/16 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.8	14.3	1	03/14/16 13:29	03/14/16 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.8	12.5	1	03/14/16 13:29	03/14/16 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	235	14.5	1	03/14/16 13:29	03/14/16 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.8	11.2	1	03/14/16 13:29	03/14/16 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.8	13.2	1	03/14/16 13:29	03/14/16 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.8	13.4	1	03/14/16 13:29	03/14/16 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.8	20.9	1	03/14/16 13:29	03/14/16 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.8	9.7	1	03/14/16 13:29	03/14/16 19:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	588	55.3	1	03/14/16 13:29	03/14/16 19:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.8	12.0	1	03/14/16 13:29	03/14/16 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.8	9.2	1	03/14/16 13:29	03/14/16 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	235	23.8	1	03/14/16 13:29	03/14/16 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.8	11.8	1	03/14/16 13:29	03/14/16 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.8	6.1	1	03/14/16 13:29	03/14/16 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.8	22.8	1	03/14/16 13:29	03/14/16 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	235	19.2	1	03/14/16 13:29	03/14/16 19:09	60-29-7	
Ethylbenzene	ND	ug/kg	58.8	8.8	1	03/14/16 13:29	03/14/16 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	25.0	1	03/14/16 13:29	03/14/16 19:09	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-72 **Lab ID: 10341254003** Collected: 03/07/16 14:10 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.8	10.7	1	03/14/16 13:29	03/14/16 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.8	10.3	1	03/14/16 13:29	03/14/16 19:09	99-87-6	
Methylene Chloride	ND	ug/kg	235	17.5	1	03/14/16 13:29	03/14/16 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	74.8	1	03/14/16 13:29	03/14/16 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.8	11.0	1	03/14/16 13:29	03/14/16 19:09	1634-04-4	
Naphthalene	ND	ug/kg	235	84.8	1	03/14/16 13:29	03/14/16 19:09	91-20-3	
n-Propylbenzene	ND	ug/kg	58.8	12.6	1	03/14/16 13:29	03/14/16 19:09	103-65-1	
Styrene	ND	ug/kg	58.8	9.3	1	03/14/16 13:29	03/14/16 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/14/16 13:29	03/14/16 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/14/16 13:29	03/14/16 19:09	79-34-5	
Tetrachloroethene	ND	ug/kg	58.8	12.1	1	03/14/16 13:29	03/14/16 19:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2350	93.0	1	03/14/16 13:29	03/14/16 19:09	109-99-9	
Toluene	ND	ug/kg	58.8	11.3	1	03/14/16 13:29	03/14/16 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.8	22.8	1	03/14/16 13:29	03/14/16 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.8	10.7	1	03/14/16 13:29	03/14/16 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.8	11.4	1	03/14/16 13:29	03/14/16 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.8	16.1	1	03/14/16 13:29	03/14/16 19:09	79-00-5	
Trichloroethene	ND	ug/kg	58.8	14.2	1	03/14/16 13:29	03/14/16 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	235	40.7	1	03/14/16 13:29	03/14/16 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	235	16.2	1	03/14/16 13:29	03/14/16 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	235	13.9	1	03/14/16 13:29	03/14/16 19:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.8	11.8	1	03/14/16 13:29	03/14/16 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.8	11.4	1	03/14/16 13:29	03/14/16 19:09	108-67-8	
Vinyl chloride	ND	ug/kg	23.5	10.6	1	03/14/16 13:29	03/14/16 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	176	35.2	1	03/14/16 13:29	03/14/16 19:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	121	%.	75-129		1	03/14/16 13:29	03/14/16 19:09	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/14/16 13:29	03/14/16 19:09	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	75-125		1	03/14/16 13:29	03/14/16 19:09	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-23 **Lab ID: 10341254004** Collected: 03/07/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**11.4**	%	0.10	0.10	1		03/15/16 10:30		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	262	1	03/14/16 13:29	03/14/16 19:25	67-64-1	
Allyl chloride	ND	ug/kg	234	14.3	1	03/14/16 13:29	03/14/16 19:25	107-05-1	
Benzene	ND	ug/kg	23.4	8.2	1	03/14/16 13:29	03/14/16 19:25	71-43-2	
Bromobenzene	ND	ug/kg	58.4	14.1	1	03/14/16 13:29	03/14/16 19:25	108-86-1	
Bromochloromethane	ND	ug/kg	58.4	11.2	1	03/14/16 13:29	03/14/16 19:25	74-97-5	
Bromodichloromethane	ND	ug/kg	58.4	10.4	1	03/14/16 13:29	03/14/16 19:25	75-27-4	L2
Bromoform	ND	ug/kg	584	13.9	1	03/14/16 13:29	03/14/16 19:25	75-25-2	
Bromomethane	ND	ug/kg	584	103	1	03/14/16 13:29	03/14/16 19:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	97.0	1	03/14/16 13:29	03/14/16 19:25	78-93-3	
n-Butylbenzene	ND	ug/kg	58.4	11.0	1	03/14/16 13:29	03/14/16 19:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.4	11.9	1	03/14/16 13:29	03/14/16 19:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.4	15.7	1	03/14/16 13:29	03/14/16 19:25	98-06-6	
Carbon tetrachloride	ND	ug/kg	234	14.1	1	03/14/16 13:29	03/14/16 19:25	56-23-5	
Chlorobenzene	ND	ug/kg	58.4	9.5	1	03/14/16 13:29	03/14/16 19:25	108-90-7	
Chloroethane	ND	ug/kg	584	27.9	1	03/14/16 13:29	03/14/16 19:25	75-00-3	
Chloroform	ND	ug/kg	58.4	9.8	1	03/14/16 13:29	03/14/16 19:25	67-66-3	
Chloromethane	ND	ug/kg	234	11.8	1	03/14/16 13:29	03/14/16 19:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.4	12.0	1	03/14/16 13:29	03/14/16 19:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.4	11.0	1	03/14/16 13:29	03/14/16 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	584	45.2	1	03/14/16 13:29	03/14/16 19:25	96-12-8	
Dibromochloromethane	ND	ug/kg	234	9.0	1	03/14/16 13:29	03/14/16 19:25	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	58.4	9.4	1	03/14/16 13:29	03/14/16 19:25	106-93-4	
Dibromomethane	ND	ug/kg	58.4	13.8	1	03/14/16 13:29	03/14/16 19:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.4	14.1	1	03/14/16 13:29	03/14/16 19:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.4	14.3	1	03/14/16 13:29	03/14/16 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.4	12.4	1	03/14/16 13:29	03/14/16 19:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	234	14.4	1	03/14/16 13:29	03/14/16 19:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.4	11.2	1	03/14/16 13:29	03/14/16 19:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.4	13.1	1	03/14/16 13:29	03/14/16 19:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.4	13.3	1	03/14/16 13:29	03/14/16 19:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.4	20.8	1	03/14/16 13:29	03/14/16 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.4	9.6	1	03/14/16 13:29	03/14/16 19:25	156-60-5	
Dichlorofluoromethane	ND	ug/kg	584	54.9	1	03/14/16 13:29	03/14/16 19:25	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.4	11.9	1	03/14/16 13:29	03/14/16 19:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.4	9.2	1	03/14/16 13:29	03/14/16 19:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	234	23.6	1	03/14/16 13:29	03/14/16 19:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.4	11.7	1	03/14/16 13:29	03/14/16 19:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.4	6.1	1	03/14/16 13:29	03/14/16 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.4	22.7	1	03/14/16 13:29	03/14/16 19:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	234	19.1	1	03/14/16 13:29	03/14/16 19:25	60-29-7	
Ethylbenzene	ND	ug/kg	58.4	8.7	1	03/14/16 13:29	03/14/16 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/14/16 13:29	03/14/16 19:25	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B28-S-23 **Lab ID: 10341254004** Collected: 03/07/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.4	10.6	1	03/14/16 13:29	03/14/16 19:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.4	10.2	1	03/14/16 13:29	03/14/16 19:25	99-87-6	
Methylene Chloride	ND	ug/kg	234	17.4	1	03/14/16 13:29	03/14/16 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.3	1	03/14/16 13:29	03/14/16 19:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.4	11.0	1	03/14/16 13:29	03/14/16 19:25	1634-04-4	
Naphthalene	ND	ug/kg	234	84.3	1	03/14/16 13:29	03/14/16 19:25	91-20-3	
n-Propylbenzene	ND	ug/kg	58.4	12.5	1	03/14/16 13:29	03/14/16 19:25	103-65-1	
Styrene	ND	ug/kg	58.4	9.3	1	03/14/16 13:29	03/14/16 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/14/16 13:29	03/14/16 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/14/16 13:29	03/14/16 19:25	79-34-5	
Tetrachloroethene	ND	ug/kg	58.4	12.0	1	03/14/16 13:29	03/14/16 19:25	127-18-4	
Tetrahydrofuran	ND	ug/kg	2340	92.5	1	03/14/16 13:29	03/14/16 19:25	109-99-9	
Toluene	ND	ug/kg	58.4	11.2	1	03/14/16 13:29	03/14/16 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.4	22.7	1	03/14/16 13:29	03/14/16 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.4	10.6	1	03/14/16 13:29	03/14/16 19:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.4	11.4	1	03/14/16 13:29	03/14/16 19:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.4	16.0	1	03/14/16 13:29	03/14/16 19:25	79-00-5	
Trichloroethene	ND	ug/kg	58.4	14.1	1	03/14/16 13:29	03/14/16 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	234	40.4	1	03/14/16 13:29	03/14/16 19:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	234	16.1	1	03/14/16 13:29	03/14/16 19:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	234	13.8	1	03/14/16 13:29	03/14/16 19:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.4	11.7	1	03/14/16 13:29	03/14/16 19:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.4	11.3	1	03/14/16 13:29	03/14/16 19:25	108-67-8	
Vinyl chloride	ND	ug/kg	23.4	10.5	1	03/14/16 13:29	03/14/16 19:25	75-01-4	
Xylene (Total)	ND	ug/kg	175	35.0	1	03/14/16 13:29	03/14/16 19:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	121	%.	75-129		1	03/14/16 13:29	03/14/16 19:25	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/14/16 13:29	03/14/16 19:25	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	75-125		1	03/14/16 13:29	03/14/16 19:25	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-34 **Lab ID: 10341254005** Collected: 03/08/16 12:20 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.4**	%	0.10	0.10	1		03/15/16 10:30		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	256	1	03/14/16 15:05	03/15/16 18:24	67-64-1	
Allyl chloride	ND	ug/kg	229	14.0	1	03/14/16 15:05	03/15/16 18:24	107-05-1	
Benzene	ND	ug/kg	22.9	12.1	1	03/14/16 15:05	03/15/16 18:24	71-43-2	
Bromobenzene	ND	ug/kg	57.2	13.8	1	03/14/16 15:05	03/15/16 18:24	108-86-1	
Bromochloromethane	ND	ug/kg	57.2	11.0	1	03/14/16 15:05	03/15/16 18:24	74-97-5	
Bromodichloromethane	ND	ug/kg	57.2	10.2	1	03/14/16 15:05	03/15/16 18:24	75-27-4	
Bromoform	ND	ug/kg	229	13.6	1	03/14/16 15:05	03/15/16 18:24	75-25-2	
Bromomethane	ND	ug/kg	572	100	1	03/14/16 15:05	03/15/16 18:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	286	95.0	1	03/14/16 15:05	03/15/16 18:24	78-93-3	
n-Butylbenzene	ND	ug/kg	57.2	10.8	1	03/14/16 15:05	03/15/16 18:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.2	11.7	1	03/14/16 15:05	03/15/16 18:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.2	15.3	1	03/14/16 15:05	03/15/16 18:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.2	13.8	1	03/14/16 15:05	03/15/16 18:24	56-23-5	
Chlorobenzene	ND	ug/kg	57.2	9.3	1	03/14/16 15:05	03/15/16 18:24	108-90-7	
Chloroethane	ND	ug/kg	572	27.4	1	03/14/16 15:05	03/15/16 18:24	75-00-3	
Chloroform	ND	ug/kg	57.2	9.6	1	03/14/16 15:05	03/15/16 18:24	67-66-3	
Chloromethane	ND	ug/kg	229	11.6	1	03/14/16 15:05	03/15/16 18:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.2	11.8	1	03/14/16 15:05	03/15/16 18:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.2	10.7	1	03/14/16 15:05	03/15/16 18:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	572	44.3	1	03/14/16 15:05	03/15/16 18:24	96-12-8	
Dibromochloromethane	ND	ug/kg	57.2	8.9	1	03/14/16 15:05	03/15/16 18:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.2	9.7	1	03/14/16 15:05	03/15/16 18:24	106-93-4	
Dibromomethane	ND	ug/kg	57.2	13.5	1	03/14/16 15:05	03/15/16 18:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.2	13.8	1	03/14/16 15:05	03/15/16 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.2	14.0	1	03/14/16 15:05	03/15/16 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.2	12.1	1	03/14/16 15:05	03/15/16 18:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	229	14.1	1	03/14/16 15:05	03/15/16 18:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.2	10.9	1	03/14/16 15:05	03/15/16 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.2	12.8	1	03/14/16 15:05	03/15/16 18:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.2	13.0	1	03/14/16 15:05	03/15/16 18:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.2	20.4	1	03/14/16 15:05	03/15/16 18:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.2	9.4	1	03/14/16 15:05	03/15/16 18:24	156-60-5	
Dichlorofluoromethane	ND	ug/kg	572	53.8	1	03/14/16 15:05	03/15/16 18:24	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.2	11.7	1	03/14/16 15:05	03/15/16 18:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.2	9.0	1	03/14/16 15:05	03/15/16 18:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	229	23.1	1	03/14/16 15:05	03/15/16 18:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.2	11.4	1	03/14/16 15:05	03/15/16 18:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.2	5.9	1	03/14/16 15:05	03/15/16 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	229	22.2	1	03/14/16 15:05	03/15/16 18:24	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	229	18.7	1	03/14/16 15:05	03/15/16 18:24	60-29-7	
Ethylbenzene	ND	ug/kg	57.2	9.2	1	03/14/16 15:05	03/15/16 18:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	286	24.4	1	03/14/16 15:05	03/15/16 18:24	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-34 **Lab ID: 10341254005** Collected: 03/08/16 12:20 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.2	10.4	1	03/14/16 15:05	03/15/16 18:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.2	10	1	03/14/16 15:05	03/15/16 18:24	99-87-6	
Methylene Chloride	ND	ug/kg	229	17.1	1	03/14/16 15:05	03/15/16 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	286	72.8	1	03/14/16 15:05	03/15/16 18:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.2	15.5	1	03/14/16 15:05	03/15/16 18:24	1634-04-4	
Naphthalene	ND	ug/kg	229	82.5	1	03/14/16 15:05	03/15/16 18:24	91-20-3	
n-Propylbenzene	ND	ug/kg	57.2	14.4	1	03/14/16 15:05	03/15/16 18:24	103-65-1	
Styrene	ND	ug/kg	57.2	9.1	1	03/14/16 15:05	03/15/16 18:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.2	11.0	1	03/14/16 15:05	03/15/16 18:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.2	11.0	1	03/14/16 15:05	03/15/16 18:24	79-34-5	
Tetrachloroethene	ND	ug/kg	57.2	11.8	1	03/14/16 15:05	03/15/16 18:24	127-18-4	
Tetrahydrofuran	ND	ug/kg	2290	90.5	1	03/14/16 15:05	03/15/16 18:24	109-99-9	
Toluene	ND	ug/kg	57.2	11.0	1	03/14/16 15:05	03/15/16 18:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.2	22.2	1	03/14/16 15:05	03/15/16 18:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	229	10.4	1	03/14/16 15:05	03/15/16 18:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.2	11.1	1	03/14/16 15:05	03/15/16 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.2	15.7	1	03/14/16 15:05	03/15/16 18:24	79-00-5	
Trichloroethene	ND	ug/kg	57.2	13.8	1	03/14/16 15:05	03/15/16 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	229	39.6	1	03/14/16 15:05	03/15/16 18:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	229	15.8	1	03/14/16 15:05	03/15/16 18:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	229	13.5	1	03/14/16 15:05	03/15/16 18:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.2	11.4	1	03/14/16 15:05	03/15/16 18:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.2	12.8	1	03/14/16 15:05	03/15/16 18:24	108-67-8	
Vinyl chloride	ND	ug/kg	57.2	10.3	1	03/14/16 15:05	03/15/16 18:24	75-01-4	
Xylene (Total)	ND	ug/kg	172	34.2	1	03/14/16 15:05	03/15/16 18:24	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-129		1	03/14/16 15:05	03/15/16 18:24	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/14/16 15:05	03/15/16 18:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1	03/14/16 15:05	03/15/16 18:24	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-47 **Lab ID: 10341254006** Collected: 03/08/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.2**	%	0.10	0.10	1		03/15/16 11:04		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1150	258	1	03/14/16 15:05	03/15/16 18:42	67-64-1	
Allyl chloride	ND	ug/kg	230	14.0	1	03/14/16 15:05	03/15/16 18:42	107-05-1	
Benzene	ND	ug/kg	23.0	12.2	1	03/14/16 15:05	03/15/16 18:42	71-43-2	
Bromobenzene	ND	ug/kg	57.5	13.9	1	03/14/16 15:05	03/15/16 18:42	108-86-1	
Bromochloromethane	ND	ug/kg	57.5	11.0	1	03/14/16 15:05	03/15/16 18:42	74-97-5	
Bromodichloromethane	ND	ug/kg	57.5	10.2	1	03/14/16 15:05	03/15/16 18:42	75-27-4	
Bromoform	ND	ug/kg	230	13.7	1	03/14/16 15:05	03/15/16 18:42	75-25-2	
Bromomethane	ND	ug/kg	575	101	1	03/14/16 15:05	03/15/16 18:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	287	95.4	1	03/14/16 15:05	03/15/16 18:42	78-93-3	
n-Butylbenzene	ND	ug/kg	57.5	10.8	1	03/14/16 15:05	03/15/16 18:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.5	11.7	1	03/14/16 15:05	03/15/16 18:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.5	15.4	1	03/14/16 15:05	03/15/16 18:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.5	13.9	1	03/14/16 15:05	03/15/16 18:42	56-23-5	
Chlorobenzene	ND	ug/kg	57.5	9.3	1	03/14/16 15:05	03/15/16 18:42	108-90-7	
Chloroethane	ND	ug/kg	575	27.5	1	03/14/16 15:05	03/15/16 18:42	75-00-3	
Chloroform	ND	ug/kg	57.5	9.6	1	03/14/16 15:05	03/15/16 18:42	67-66-3	
Chloromethane	ND	ug/kg	230	11.6	1	03/14/16 15:05	03/15/16 18:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.5	11.8	1	03/14/16 15:05	03/15/16 18:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.5	10.8	1	03/14/16 15:05	03/15/16 18:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	575	44.5	1	03/14/16 15:05	03/15/16 18:42	96-12-8	
Dibromochloromethane	ND	ug/kg	57.5	8.9	1	03/14/16 15:05	03/15/16 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.5	9.7	1	03/14/16 15:05	03/15/16 18:42	106-93-4	
Dibromomethane	ND	ug/kg	57.5	13.6	1	03/14/16 15:05	03/15/16 18:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.5	13.9	1	03/14/16 15:05	03/15/16 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.5	14.0	1	03/14/16 15:05	03/15/16 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.5	12.2	1	03/14/16 15:05	03/15/16 18:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	14.1	1	03/14/16 15:05	03/15/16 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.5	11.0	1	03/14/16 15:05	03/15/16 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.5	12.9	1	03/14/16 15:05	03/15/16 18:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.5	13.1	1	03/14/16 15:05	03/15/16 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.5	20.5	1	03/14/16 15:05	03/15/16 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.5	9.4	1	03/14/16 15:05	03/15/16 18:42	156-60-5	
Dichlorofluoromethane	ND	ug/kg	575	54.0	1	03/14/16 15:05	03/15/16 18:42	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.5	11.7	1	03/14/16 15:05	03/15/16 18:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.5	9.0	1	03/14/16 15:05	03/15/16 18:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	230	23.2	1	03/14/16 15:05	03/15/16 18:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.5	11.5	1	03/14/16 15:05	03/15/16 18:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.5	6.0	1	03/14/16 15:05	03/15/16 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	230	22.3	1	03/14/16 15:05	03/15/16 18:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	230	18.7	1	03/14/16 15:05	03/15/16 18:42	60-29-7	
Ethylbenzene	ND	ug/kg	57.5	9.2	1	03/14/16 15:05	03/15/16 18:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	287	24.5	1	03/14/16 15:05	03/15/16 18:42	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-47 **Lab ID: 10341254006** Collected: 03/08/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.5	10.5	1	03/14/16 15:05	03/15/16 18:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.5	10.0	1	03/14/16 15:05	03/15/16 18:42	99-87-6	
Methylene Chloride	ND	ug/kg	230	17.1	1	03/14/16 15:05	03/15/16 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	287	73.1	1	03/14/16 15:05	03/15/16 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.5	15.5	1	03/14/16 15:05	03/15/16 18:42	1634-04-4	
Naphthalene	ND	ug/kg	230	82.9	1	03/14/16 15:05	03/15/16 18:42	91-20-3	
n-Propylbenzene	ND	ug/kg	57.5	14.5	1	03/14/16 15:05	03/15/16 18:42	103-65-1	
Styrene	ND	ug/kg	57.5	9.1	1	03/14/16 15:05	03/15/16 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.5	11.0	1	03/14/16 15:05	03/15/16 18:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.5	11.0	1	03/14/16 15:05	03/15/16 18:42	79-34-5	
Tetrachloroethene	ND	ug/kg	57.5	11.8	1	03/14/16 15:05	03/15/16 18:42	127-18-4	
Tetrahydrofuran	ND	ug/kg	2300	90.9	1	03/14/16 15:05	03/15/16 18:42	109-99-9	
Toluene	ND	ug/kg	57.5	11.0	1	03/14/16 15:05	03/15/16 18:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.5	22.3	1	03/14/16 15:05	03/15/16 18:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	230	10.5	1	03/14/16 15:05	03/15/16 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.5	11.2	1	03/14/16 15:05	03/15/16 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.5	15.8	1	03/14/16 15:05	03/15/16 18:42	79-00-5	
Trichloroethene	ND	ug/kg	57.5	13.9	1	03/14/16 15:05	03/15/16 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	230	39.8	1	03/14/16 15:05	03/15/16 18:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	230	15.9	1	03/14/16 15:05	03/15/16 18:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	230	13.6	1	03/14/16 15:05	03/15/16 18:42	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.5	11.5	1	03/14/16 15:05	03/15/16 18:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.5	12.9	1	03/14/16 15:05	03/15/16 18:42	108-67-8	
Vinyl chloride	ND	ug/kg	57.5	10.3	1	03/14/16 15:05	03/15/16 18:42	75-01-4	
Xylene (Total)	ND	ug/kg	172	34.4	1	03/14/16 15:05	03/15/16 18:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/14/16 15:05	03/15/16 18:42	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/14/16 15:05	03/15/16 18:42	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1	03/14/16 15:05	03/15/16 18:42	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-53 **Lab ID: 10341254007** Collected: 03/08/16 13:30 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.3**	%	0.10	0.10	1		03/15/16 11:04		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1210	270	1	03/14/16 15:05	03/15/16 19:00	67-64-1	
Allyl chloride	ND	ug/kg	241	14.7	1	03/14/16 15:05	03/15/16 19:00	107-05-1	
Benzene	ND	ug/kg	24.1	12.8	1	03/14/16 15:05	03/15/16 19:00	71-43-2	
Bromobenzene	ND	ug/kg	60.3	14.6	1	03/14/16 15:05	03/15/16 19:00	108-86-1	
Bromochloromethane	ND	ug/kg	60.3	11.6	1	03/14/16 15:05	03/15/16 19:00	74-97-5	
Bromodichloromethane	ND	ug/kg	60.3	10.7	1	03/14/16 15:05	03/15/16 19:00	75-27-4	
Bromoform	ND	ug/kg	241	14.4	1	03/14/16 15:05	03/15/16 19:00	75-25-2	
Bromomethane	ND	ug/kg	603	106	1	03/14/16 15:05	03/15/16 19:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	302	100	1	03/14/16 15:05	03/15/16 19:00	78-93-3	
n-Butylbenzene	ND	ug/kg	60.3	11.3	1	03/14/16 15:05	03/15/16 19:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.3	12.3	1	03/14/16 15:05	03/15/16 19:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.3	16.2	1	03/14/16 15:05	03/15/16 19:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.3	14.6	1	03/14/16 15:05	03/15/16 19:00	56-23-5	
Chlorobenzene	ND	ug/kg	60.3	9.8	1	03/14/16 15:05	03/15/16 19:00	108-90-7	
Chloroethane	ND	ug/kg	603	28.8	1	03/14/16 15:05	03/15/16 19:00	75-00-3	
Chloroform	ND	ug/kg	60.3	10.1	1	03/14/16 15:05	03/15/16 19:00	67-66-3	
Chloromethane	ND	ug/kg	241	12.2	1	03/14/16 15:05	03/15/16 19:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.3	12.4	1	03/14/16 15:05	03/15/16 19:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.3	11.3	1	03/14/16 15:05	03/15/16 19:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	603	46.7	1	03/14/16 15:05	03/15/16 19:00	96-12-8	
Dibromochloromethane	ND	ug/kg	60.3	9.3	1	03/14/16 15:05	03/15/16 19:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.3	10.2	1	03/14/16 15:05	03/15/16 19:00	106-93-4	
Dibromomethane	ND	ug/kg	60.3	14.2	1	03/14/16 15:05	03/15/16 19:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.3	14.6	1	03/14/16 15:05	03/15/16 19:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.3	14.7	1	03/14/16 15:05	03/15/16 19:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.3	12.8	1	03/14/16 15:05	03/15/16 19:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	241	14.8	1	03/14/16 15:05	03/15/16 19:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.3	11.5	1	03/14/16 15:05	03/15/16 19:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.3	13.5	1	03/14/16 15:05	03/15/16 19:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.3	13.8	1	03/14/16 15:05	03/15/16 19:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.3	21.5	1	03/14/16 15:05	03/15/16 19:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.3	9.9	1	03/14/16 15:05	03/15/16 19:00	156-60-5	
Dichlorofluoromethane	ND	ug/kg	603	56.7	1	03/14/16 15:05	03/15/16 19:00	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.3	12.3	1	03/14/16 15:05	03/15/16 19:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.3	9.4	1	03/14/16 15:05	03/15/16 19:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	241	24.4	1	03/14/16 15:05	03/15/16 19:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.3	12.1	1	03/14/16 15:05	03/15/16 19:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.3	6.3	1	03/14/16 15:05	03/15/16 19:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	241	23.4	1	03/14/16 15:05	03/15/16 19:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	241	19.7	1	03/14/16 15:05	03/15/16 19:00	60-29-7	
Ethylbenzene	ND	ug/kg	60.3	9.7	1	03/14/16 15:05	03/15/16 19:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	302	25.7	1	03/14/16 15:05	03/15/16 19:00	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-53 **Lab ID: 10341254007** Collected: 03/08/16 13:30 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.3	11.0	1	03/14/16 15:05	03/15/16 19:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.3	10.5	1	03/14/16 15:05	03/15/16 19:00	99-87-6	
Methylene Chloride	ND	ug/kg	241	18.0	1	03/14/16 15:05	03/15/16 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	302	76.7	1	03/14/16 15:05	03/15/16 19:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.3	16.3	1	03/14/16 15:05	03/15/16 19:00	1634-04-4	
Naphthalene	ND	ug/kg	241	87.0	1	03/14/16 15:05	03/15/16 19:00	91-20-3	
n-Propylbenzene	ND	ug/kg	60.3	15.2	1	03/14/16 15:05	03/15/16 19:00	103-65-1	
Styrene	ND	ug/kg	60.3	9.6	1	03/14/16 15:05	03/15/16 19:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.3	11.6	1	03/14/16 15:05	03/15/16 19:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.3	11.5	1	03/14/16 15:05	03/15/16 19:00	79-34-5	
Tetrachloroethene	ND	ug/kg	60.3	12.4	1	03/14/16 15:05	03/15/16 19:00	127-18-4	
Tetrahydrofuran	ND	ug/kg	2410	95.4	1	03/14/16 15:05	03/15/16 19:00	109-99-9	
Toluene	ND	ug/kg	60.3	11.6	1	03/14/16 15:05	03/15/16 19:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.3	23.4	1	03/14/16 15:05	03/15/16 19:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	241	11.0	1	03/14/16 15:05	03/15/16 19:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.3	11.7	1	03/14/16 15:05	03/15/16 19:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.3	16.5	1	03/14/16 15:05	03/15/16 19:00	79-00-5	
Trichloroethene	ND	ug/kg	60.3	14.6	1	03/14/16 15:05	03/15/16 19:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	241	41.7	1	03/14/16 15:05	03/15/16 19:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	241	16.6	1	03/14/16 15:05	03/15/16 19:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	241	14.2	1	03/14/16 15:05	03/15/16 19:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.3	12.1	1	03/14/16 15:05	03/15/16 19:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.3	13.5	1	03/14/16 15:05	03/15/16 19:00	108-67-8	
Vinyl chloride	ND	ug/kg	60.3	10.8	1	03/14/16 15:05	03/15/16 19:00	75-01-4	
Xylene (Total)	ND	ug/kg	181	36.1	1	03/14/16 15:05	03/15/16 19:00	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/14/16 15:05	03/15/16 19:00	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/14/16 15:05	03/15/16 19:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1	03/14/16 15:05	03/15/16 19:00	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-58 **Lab ID: 10341254008** Collected: 03/08/16 13:45 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.7**	%	0.10	0.10	1		03/15/16 11:05		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	256	1	03/14/16 15:05	03/15/16 19:18	67-64-1	
Allyl chloride	ND	ug/kg	228	13.9	1	03/14/16 15:05	03/15/16 19:18	107-05-1	
Benzene	ND	ug/kg	22.8	12.1	1	03/14/16 15:05	03/15/16 19:18	71-43-2	
Bromobenzene	ND	ug/kg	57.1	13.8	1	03/14/16 15:05	03/15/16 19:18	108-86-1	
Bromochloromethane	ND	ug/kg	57.1	10.9	1	03/14/16 15:05	03/15/16 19:18	74-97-5	
Bromodichloromethane	ND	ug/kg	57.1	10.2	1	03/14/16 15:05	03/15/16 19:18	75-27-4	
Bromoform	ND	ug/kg	228	13.6	1	03/14/16 15:05	03/15/16 19:18	75-25-2	
Bromomethane	ND	ug/kg	571	100	1	03/14/16 15:05	03/15/16 19:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	94.7	1	03/14/16 15:05	03/15/16 19:18	78-93-3	
n-Butylbenzene	ND	ug/kg	57.1	10.7	1	03/14/16 15:05	03/15/16 19:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.1	11.6	1	03/14/16 15:05	03/15/16 19:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.1	15.3	1	03/14/16 15:05	03/15/16 19:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.1	13.8	1	03/14/16 15:05	03/15/16 19:18	56-23-5	
Chlorobenzene	ND	ug/kg	57.1	9.3	1	03/14/16 15:05	03/15/16 19:18	108-90-7	
Chloroethane	ND	ug/kg	571	27.3	1	03/14/16 15:05	03/15/16 19:18	75-00-3	
Chloroform	ND	ug/kg	57.1	9.6	1	03/14/16 15:05	03/15/16 19:18	67-66-3	
Chloromethane	ND	ug/kg	228	11.5	1	03/14/16 15:05	03/15/16 19:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.1	11.8	1	03/14/16 15:05	03/15/16 19:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.1	10.7	1	03/14/16 15:05	03/15/16 19:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	571	44.2	1	03/14/16 15:05	03/15/16 19:18	96-12-8	
Dibromochloromethane	ND	ug/kg	57.1	8.8	1	03/14/16 15:05	03/15/16 19:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.1	9.7	1	03/14/16 15:05	03/15/16 19:18	106-93-4	
Dibromomethane	ND	ug/kg	57.1	13.5	1	03/14/16 15:05	03/15/16 19:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.1	13.8	1	03/14/16 15:05	03/15/16 19:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.1	13.9	1	03/14/16 15:05	03/15/16 19:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.1	12.1	1	03/14/16 15:05	03/15/16 19:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	14.0	1	03/14/16 15:05	03/15/16 19:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.1	10.9	1	03/14/16 15:05	03/15/16 19:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.1	12.8	1	03/14/16 15:05	03/15/16 19:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.1	13.0	1	03/14/16 15:05	03/15/16 19:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.1	20.3	1	03/14/16 15:05	03/15/16 19:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.1	9.4	1	03/14/16 15:05	03/15/16 19:18	156-60-5	
Dichlorofluoromethane	ND	ug/kg	571	53.6	1	03/14/16 15:05	03/15/16 19:18	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.1	11.6	1	03/14/16 15:05	03/15/16 19:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.1	8.9	1	03/14/16 15:05	03/15/16 19:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	23.0	1	03/14/16 15:05	03/15/16 19:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.1	11.4	1	03/14/16 15:05	03/15/16 19:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.1	5.9	1	03/14/16 15:05	03/15/16 19:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	228	22.1	1	03/14/16 15:05	03/15/16 19:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	18.6	1	03/14/16 15:05	03/15/16 19:18	60-29-7	
Ethylbenzene	ND	ug/kg	57.1	9.1	1	03/14/16 15:05	03/15/16 19:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	24.3	1	03/14/16 15:05	03/15/16 19:18	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-58 **Lab ID: 10341254008** Collected: 03/08/16 13:45 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.1	10.4	1	03/14/16 15:05	03/15/16 19:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.1	10	1	03/14/16 15:05	03/15/16 19:18	99-87-6	
Methylene Chloride	ND	ug/kg	228	17.0	1	03/14/16 15:05	03/15/16 19:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	72.6	1	03/14/16 15:05	03/15/16 19:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.1	15.4	1	03/14/16 15:05	03/15/16 19:18	1634-04-4	
Naphthalene	ND	ug/kg	228	82.3	1	03/14/16 15:05	03/15/16 19:18	91-20-3	
n-Propylbenzene	ND	ug/kg	57.1	14.4	1	03/14/16 15:05	03/15/16 19:18	103-65-1	
Styrene	ND	ug/kg	57.1	9.1	1	03/14/16 15:05	03/15/16 19:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.1	11.0	1	03/14/16 15:05	03/15/16 19:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.1	10.9	1	03/14/16 15:05	03/15/16 19:18	79-34-5	
Tetrachloroethene	ND	ug/kg	57.1	11.8	1	03/14/16 15:05	03/15/16 19:18	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	90.3	1	03/14/16 15:05	03/15/16 19:18	109-99-9	
Toluene	ND	ug/kg	57.1	10.9	1	03/14/16 15:05	03/15/16 19:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.1	22.1	1	03/14/16 15:05	03/15/16 19:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	228	10.4	1	03/14/16 15:05	03/15/16 19:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.1	11.1	1	03/14/16 15:05	03/15/16 19:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.1	15.6	1	03/14/16 15:05	03/15/16 19:18	79-00-5	
Trichloroethene	ND	ug/kg	57.1	13.8	1	03/14/16 15:05	03/15/16 19:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	39.5	1	03/14/16 15:05	03/15/16 19:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	15.7	1	03/14/16 15:05	03/15/16 19:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	13.5	1	03/14/16 15:05	03/15/16 19:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.1	11.4	1	03/14/16 15:05	03/15/16 19:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.1	12.8	1	03/14/16 15:05	03/15/16 19:18	108-67-8	
Vinyl chloride	ND	ug/kg	57.1	10.3	1	03/14/16 15:05	03/15/16 19:18	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.1	1	03/14/16 15:05	03/15/16 19:18	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/14/16 15:05	03/15/16 19:18	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/14/16 15:05	03/15/16 19:18	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1	03/14/16 15:05	03/15/16 19:18	460-00-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-73 **Lab ID: 10341254009** Collected: 03/08/16 14:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**9.3**	%	0.10	0.10	1		03/15/16 11:05		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1050	236	1	03/14/16 15:05	03/15/16 19:36	67-64-1	
Allyl chloride	ND	ug/kg	211	12.9	1	03/14/16 15:05	03/15/16 19:36	107-05-1	
Benzene	ND	ug/kg	21.1	11.2	1	03/14/16 15:05	03/15/16 19:36	71-43-2	
Bromobenzene	ND	ug/kg	52.7	12.8	1	03/14/16 15:05	03/15/16 19:36	108-86-1	
Bromochloromethane	ND	ug/kg	52.7	10.1	1	03/14/16 15:05	03/15/16 19:36	74-97-5	
Bromodichloromethane	ND	ug/kg	52.7	9.4	1	03/14/16 15:05	03/15/16 19:36	75-27-4	
Bromoform	ND	ug/kg	211	12.5	1	03/14/16 15:05	03/15/16 19:36	75-25-2	
Bromomethane	ND	ug/kg	527	92.5	1	03/14/16 15:05	03/15/16 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	263	87.5	1	03/14/16 15:05	03/15/16 19:36	78-93-3	
n-Butylbenzene	ND	ug/kg	52.7	9.9	1	03/14/16 15:05	03/15/16 19:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.7	10.8	1	03/14/16 15:05	03/15/16 19:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.7	14.1	1	03/14/16 15:05	03/15/16 19:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.7	12.8	1	03/14/16 15:05	03/15/16 19:36	56-23-5	
Chlorobenzene	ND	ug/kg	52.7	8.5	1	03/14/16 15:05	03/15/16 19:36	108-90-7	
Chloroethane	ND	ug/kg	527	25.2	1	03/14/16 15:05	03/15/16 19:36	75-00-3	
Chloroform	ND	ug/kg	52.7	8.8	1	03/14/16 15:05	03/15/16 19:36	67-66-3	
Chloromethane	ND	ug/kg	211	10.6	1	03/14/16 15:05	03/15/16 19:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.7	10.9	1	03/14/16 15:05	03/15/16 19:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.7	9.9	1	03/14/16 15:05	03/15/16 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	527	40.8	1	03/14/16 15:05	03/15/16 19:36	96-12-8	
Dibromochloromethane	ND	ug/kg	52.7	8.2	1	03/14/16 15:05	03/15/16 19:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.7	8.9	1	03/14/16 15:05	03/15/16 19:36	106-93-4	
Dibromomethane	ND	ug/kg	52.7	12.4	1	03/14/16 15:05	03/15/16 19:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.7	12.8	1	03/14/16 15:05	03/15/16 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.7	12.9	1	03/14/16 15:05	03/15/16 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.7	11.2	1	03/14/16 15:05	03/15/16 19:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	211	13.0	1	03/14/16 15:05	03/15/16 19:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.7	10.1	1	03/14/16 15:05	03/15/16 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.7	11.8	1	03/14/16 15:05	03/15/16 19:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.7	12.0	1	03/14/16 15:05	03/15/16 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.7	18.8	1	03/14/16 15:05	03/15/16 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.7	8.7	1	03/14/16 15:05	03/15/16 19:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	527	49.5	1	03/14/16 15:05	03/15/16 19:36	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.7	10.8	1	03/14/16 15:05	03/15/16 19:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.7	8.3	1	03/14/16 15:05	03/15/16 19:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	211	21.3	1	03/14/16 15:05	03/15/16 19:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.7	10.5	1	03/14/16 15:05	03/15/16 19:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.7	5.5	1	03/14/16 15:05	03/15/16 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	211	20.4	1	03/14/16 15:05	03/15/16 19:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	211	17.2	1	03/14/16 15:05	03/15/16 19:36	60-29-7	
Ethylbenzene	ND	ug/kg	52.7	8.4	1	03/14/16 15:05	03/15/16 19:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	263	22.4	1	03/14/16 15:05	03/15/16 19:36	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B26-S-73 **Lab ID: 10341254009** Collected: 03/08/16 14:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.7	9.6	1	03/14/16 15:05	03/15/16 19:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.7	9.2	1	03/14/16 15:05	03/15/16 19:36	99-87-6	
Methylene Chloride	ND	ug/kg	211	15.7	1	03/14/16 15:05	03/15/16 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	263	67.0	1	03/14/16 15:05	03/15/16 19:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.7	14.2	1	03/14/16 15:05	03/15/16 19:36	1634-04-4	
Naphthalene	ND	ug/kg	211	76.0	1	03/14/16 15:05	03/15/16 19:36	91-20-3	
n-Propylbenzene	ND	ug/kg	52.7	13.3	1	03/14/16 15:05	03/15/16 19:36	103-65-1	
Styrene	ND	ug/kg	52.7	8.4	1	03/14/16 15:05	03/15/16 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.7	10.1	1	03/14/16 15:05	03/15/16 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.7	10.1	1	03/14/16 15:05	03/15/16 19:36	79-34-5	
Tetrachloroethene	ND	ug/kg	52.7	10.9	1	03/14/16 15:05	03/15/16 19:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2110	83.4	1	03/14/16 15:05	03/15/16 19:36	109-99-9	
Toluene	ND	ug/kg	52.7	10.1	1	03/14/16 15:05	03/15/16 19:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.7	20.4	1	03/14/16 15:05	03/15/16 19:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	211	9.6	1	03/14/16 15:05	03/15/16 19:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.7	10.3	1	03/14/16 15:05	03/15/16 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.7	14.4	1	03/14/16 15:05	03/15/16 19:36	79-00-5	
Trichloroethene	ND	ug/kg	52.7	12.8	1	03/14/16 15:05	03/15/16 19:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	211	36.5	1	03/14/16 15:05	03/15/16 19:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	211	14.5	1	03/14/16 15:05	03/15/16 19:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	211	12.4	1	03/14/16 15:05	03/15/16 19:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.7	10.5	1	03/14/16 15:05	03/15/16 19:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.7	11.8	1	03/14/16 15:05	03/15/16 19:36	108-67-8	
Vinyl chloride	ND	ug/kg	52.7	9.5	1	03/14/16 15:05	03/15/16 19:36	75-01-4	
Xylene (Total)	ND	ug/kg	158	31.5	1	03/14/16 15:05	03/15/16 19:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/14/16 15:05	03/15/16 19:36	17060-07-0	
Toluene-d8 (S)	94	%.	75-125		1	03/14/16 15:05	03/15/16 19:36	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125		1	03/14/16 15:05	03/15/16 19:36	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-3 **Lab ID: 10341254010** Collected: 03/08/16 13:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.8**	%	0.10	0.10	1		03/15/16 11:05		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1260	282	1	03/15/16 11:03	03/16/16 14:56	67-64-1	
Allyl chloride	ND	ug/kg	251	15.3	1	03/15/16 11:03	03/16/16 14:56	107-05-1	
Benzene	ND	ug/kg	25.1	13.3	1	03/15/16 11:03	03/16/16 14:56	71-43-2	
Bromobenzene	ND	ug/kg	62.9	15.2	1	03/15/16 11:03	03/16/16 14:56	108-86-1	
Bromochloromethane	ND	ug/kg	62.9	12.0	1	03/15/16 11:03	03/16/16 14:56	74-97-5	
Bromodichloromethane	ND	ug/kg	62.9	11.2	1	03/15/16 11:03	03/16/16 14:56	75-27-4	
Bromoform	ND	ug/kg	251	15.0	1	03/15/16 11:03	03/16/16 14:56	75-25-2	
Bromomethane	ND	ug/kg	629	110	1	03/15/16 11:03	03/16/16 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	314	104	1	03/15/16 11:03	03/16/16 14:56	78-93-3	
n-Butylbenzene	ND	ug/kg	62.9	11.8	1	03/15/16 11:03	03/16/16 14:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	62.9	12.8	1	03/15/16 11:03	03/16/16 14:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	62.9	16.8	1	03/15/16 11:03	03/16/16 14:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	62.9	15.2	1	03/15/16 11:03	03/16/16 14:56	56-23-5	
Chlorobenzene	ND	ug/kg	62.9	10.2	1	03/15/16 11:03	03/16/16 14:56	108-90-7	
Chloroethane	ND	ug/kg	629	30.0	1	03/15/16 11:03	03/16/16 14:56	75-00-3	
Chloroform	ND	ug/kg	62.9	10.5	1	03/15/16 11:03	03/16/16 14:56	67-66-3	
Chloromethane	ND	ug/kg	251	12.7	1	03/15/16 11:03	03/16/16 14:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	62.9	12.9	1	03/15/16 11:03	03/16/16 14:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	62.9	11.8	1	03/15/16 11:03	03/16/16 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	629	48.6	1	03/15/16 11:03	03/16/16 14:56	96-12-8	
Dibromochloromethane	ND	ug/kg	62.9	9.7	1	03/15/16 11:03	03/16/16 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	62.9	10.6	1	03/15/16 11:03	03/16/16 14:56	106-93-4	
Dibromomethane	ND	ug/kg	62.9	14.8	1	03/15/16 11:03	03/16/16 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	62.9	15.2	1	03/15/16 11:03	03/16/16 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	62.9	15.3	1	03/15/16 11:03	03/16/16 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	62.9	13.3	1	03/15/16 11:03	03/16/16 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	251	15.5	1	03/15/16 11:03	03/16/16 14:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	62.9	12.0	1	03/15/16 11:03	03/16/16 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	62.9	14.1	1	03/15/16 11:03	03/16/16 14:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	62.9	14.3	1	03/15/16 11:03	03/16/16 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	62.9	22.4	1	03/15/16 11:03	03/16/16 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	62.9	10.3	1	03/15/16 11:03	03/16/16 14:56	156-60-5	
Dichlorofluoromethane	ND	ug/kg	629	59.1	1	03/15/16 11:03	03/16/16 14:56	75-43-4	
1,2-Dichloropropane	ND	ug/kg	62.9	12.8	1	03/15/16 11:03	03/16/16 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	62.9	9.8	1	03/15/16 11:03	03/16/16 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	251	25.4	1	03/15/16 11:03	03/16/16 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	62.9	12.6	1	03/15/16 11:03	03/16/16 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	62.9	6.5	1	03/15/16 11:03	03/16/16 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	251	24.4	1	03/15/16 11:03	03/16/16 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	251	20.5	1	03/15/16 11:03	03/16/16 14:56	60-29-7	
Ethylbenzene	ND	ug/kg	62.9	10.1	1	03/15/16 11:03	03/16/16 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	314	26.8	1	03/15/16 11:03	03/16/16 14:56	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-3 **Lab ID: 10341254010** Collected: 03/08/16 13:25 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	62.9	11.4	1	03/15/16 11:03	03/16/16 14:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	62.9	11.0	1	03/15/16 11:03	03/16/16 14:56	99-87-6	
Methylene Chloride	ND	ug/kg	251	18.7	1	03/15/16 11:03	03/16/16 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	314	80.0	1	03/15/16 11:03	03/16/16 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	62.9	17.0	1	03/15/16 11:03	03/16/16 14:56	1634-04-4	
Naphthalene	ND	ug/kg	251	90.6	1	03/15/16 11:03	03/16/16 14:56	91-20-3	
n-Propylbenzene	ND	ug/kg	62.9	15.8	1	03/15/16 11:03	03/16/16 14:56	103-65-1	
Styrene	ND	ug/kg	62.9	10	1	03/15/16 11:03	03/16/16 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	62.9	12.1	1	03/15/16 11:03	03/16/16 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	62.9	12.0	1	03/15/16 11:03	03/16/16 14:56	79-34-5	
Tetrachloroethene	ND	ug/kg	62.9	12.9	1	03/15/16 11:03	03/16/16 14:56	127-18-4	
Tetrahydrofuran	ND	ug/kg	2510	99.4	1	03/15/16 11:03	03/16/16 14:56	109-99-9	
Toluene	ND	ug/kg	62.9	12.1	1	03/15/16 11:03	03/16/16 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	62.9	24.4	1	03/15/16 11:03	03/16/16 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	251	11.4	1	03/15/16 11:03	03/16/16 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	62.9	12.2	1	03/15/16 11:03	03/16/16 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	62.9	17.2	1	03/15/16 11:03	03/16/16 14:56	79-00-5	
Trichloroethene	ND	ug/kg	62.9	15.2	1	03/15/16 11:03	03/16/16 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	251	43.5	1	03/15/16 11:03	03/16/16 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	251	17.3	1	03/15/16 11:03	03/16/16 14:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	251	14.8	1	03/15/16 11:03	03/16/16 14:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	62.9	12.6	1	03/15/16 11:03	03/16/16 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	62.9	14.1	1	03/15/16 11:03	03/16/16 14:56	108-67-8	
Vinyl chloride	ND	ug/kg	62.9	11.3	1	03/15/16 11:03	03/16/16 14:56	75-01-4	
Xylene (Total)	ND	ug/kg	189	37.6	1	03/15/16 11:03	03/16/16 14:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-129		1	03/15/16 11:03	03/16/16 14:56	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/15/16 11:03	03/16/16 14:56	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125		1	03/15/16 11:03	03/16/16 14:56	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-4 **Lab ID: 10341254011** Collected: 03/08/16 13:55 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.9**	%	0.10	0.10	1		03/15/16 11:05		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	264	1	03/15/16 11:03	03/16/16 17:03	67-64-1	
Allyl chloride	ND	ug/kg	235	14.4	1	03/15/16 11:03	03/16/16 17:03	107-05-1	
Benzene	ND	ug/kg	23.5	12.5	1	03/15/16 11:03	03/16/16 17:03	71-43-2	
Bromobenzene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 17:03	108-86-1	
Bromochloromethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 17:03	74-97-5	
Bromodichloromethane	ND	ug/kg	58.8	10.5	1	03/15/16 11:03	03/16/16 17:03	75-27-4	
Bromoform	ND	ug/kg	235	14.0	1	03/15/16 11:03	03/16/16 17:03	75-25-2	
Bromomethane	ND	ug/kg	588	103	1	03/15/16 11:03	03/16/16 17:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	97.7	1	03/15/16 11:03	03/16/16 17:03	78-93-3	
n-Butylbenzene	ND	ug/kg	58.8	11.1	1	03/15/16 11:03	03/16/16 17:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.8	12.0	1	03/15/16 11:03	03/16/16 17:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.8	15.8	1	03/15/16 11:03	03/16/16 17:03	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 17:03	56-23-5	
Chlorobenzene	ND	ug/kg	58.8	9.5	1	03/15/16 11:03	03/16/16 17:03	108-90-7	
Chloroethane	ND	ug/kg	588	28.1	1	03/15/16 11:03	03/16/16 17:03	75-00-3	
Chloroform	ND	ug/kg	58.8	9.8	1	03/15/16 11:03	03/16/16 17:03	67-66-3	
Chloromethane	ND	ug/kg	235	11.9	1	03/15/16 11:03	03/16/16 17:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.8	12.1	1	03/15/16 11:03	03/16/16 17:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.8	11.0	1	03/15/16 11:03	03/16/16 17:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	588	45.5	1	03/15/16 11:03	03/16/16 17:03	96-12-8	
Dibromochloromethane	ND	ug/kg	58.8	9.1	1	03/15/16 11:03	03/16/16 17:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.8	10	1	03/15/16 11:03	03/16/16 17:03	106-93-4	
Dibromomethane	ND	ug/kg	58.8	13.9	1	03/15/16 11:03	03/16/16 17:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 17:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.8	14.4	1	03/15/16 11:03	03/16/16 17:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.8	12.5	1	03/15/16 11:03	03/16/16 17:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	235	14.5	1	03/15/16 11:03	03/16/16 17:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.8	11.2	1	03/15/16 11:03	03/16/16 17:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.8	13.2	1	03/15/16 11:03	03/16/16 17:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.8	13.4	1	03/15/16 11:03	03/16/16 17:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.8	20.9	1	03/15/16 11:03	03/16/16 17:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.8	9.7	1	03/15/16 11:03	03/16/16 17:03	156-60-5	
Dichlorofluoromethane	ND	ug/kg	588	55.3	1	03/15/16 11:03	03/16/16 17:03	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.8	12.0	1	03/15/16 11:03	03/16/16 17:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.8	9.2	1	03/15/16 11:03	03/16/16 17:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	235	23.8	1	03/15/16 11:03	03/16/16 17:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.8	11.8	1	03/15/16 11:03	03/16/16 17:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.8	6.1	1	03/15/16 11:03	03/16/16 17:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	235	22.8	1	03/15/16 11:03	03/16/16 17:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	235	19.2	1	03/15/16 11:03	03/16/16 17:03	60-29-7	
Ethylbenzene	ND	ug/kg	58.8	9.4	1	03/15/16 11:03	03/16/16 17:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	25.1	1	03/15/16 11:03	03/16/16 17:03	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-4 **Lab ID: 10341254011** Collected: 03/08/16 13:55 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.8	10.7	1	03/15/16 11:03	03/16/16 17:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.8	10.3	1	03/15/16 11:03	03/16/16 17:03	99-87-6	
Methylene Chloride	ND	ug/kg	235	17.5	1	03/15/16 11:03	03/16/16 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	74.8	1	03/15/16 11:03	03/16/16 17:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.8	15.9	1	03/15/16 11:03	03/16/16 17:03	1634-04-4	
Naphthalene	ND	ug/kg	235	84.8	1	03/15/16 11:03	03/16/16 17:03	91-20-3	
n-Propylbenzene	ND	ug/kg	58.8	14.8	1	03/15/16 11:03	03/16/16 17:03	103-65-1	
Styrene	ND	ug/kg	58.8	9.3	1	03/15/16 11:03	03/16/16 17:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 17:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 17:03	79-34-5	
Tetrachloroethene	ND	ug/kg	58.8	12.1	1	03/15/16 11:03	03/16/16 17:03	127-18-4	
Tetrahydrofuran	ND	ug/kg	2350	93.1	1	03/15/16 11:03	03/16/16 17:03	109-99-9	
Toluene	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 17:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.8	22.8	1	03/15/16 11:03	03/16/16 17:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	235	10.7	1	03/15/16 11:03	03/16/16 17:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.8	11.4	1	03/15/16 11:03	03/16/16 17:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.8	16.1	1	03/15/16 11:03	03/16/16 17:03	79-00-5	
Trichloroethene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 17:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	235	40.7	1	03/15/16 11:03	03/16/16 17:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	235	16.2	1	03/15/16 11:03	03/16/16 17:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	235	13.9	1	03/15/16 11:03	03/16/16 17:03	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.8	11.8	1	03/15/16 11:03	03/16/16 17:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.8	13.2	1	03/15/16 11:03	03/16/16 17:03	108-67-8	
Vinyl chloride	ND	ug/kg	58.8	10.6	1	03/15/16 11:03	03/16/16 17:03	75-01-4	
Xylene (Total)	ND	ug/kg	176	35.2	1	03/15/16 11:03	03/16/16 17:03	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/15/16 11:03	03/16/16 17:03	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 17:03	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1	03/15/16 11:03	03/16/16 17:03	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: TRIP BLANK-3 **Lab ID: 10341254012** Collected: 03/07/16 07:00 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1000	224	1	03/14/16 13:29	03/14/16 15:02	67-64-1	
Allyl chloride	ND	ug/kg	200	12.2	1	03/14/16 13:29	03/14/16 15:02	107-05-1	
Benzene	ND	ug/kg	20.0	7.0	1	03/14/16 13:29	03/14/16 15:02	71-43-2	
Bromobenzene	ND	ug/kg	50.0	12.1	1	03/14/16 13:29	03/14/16 15:02	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	9.6	1	03/14/16 13:29	03/14/16 15:02	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	03/14/16 13:29	03/14/16 15:02	75-27-4	L2
Bromoform	ND	ug/kg	500	11.9	1	03/14/16 13:29	03/14/16 15:02	75-25-2	
Bromomethane	ND	ug/kg	500	87.8	1	03/14/16 13:29	03/14/16 15:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	83.0	1	03/14/16 13:29	03/14/16 15:02	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	9.4	1	03/14/16 13:29	03/14/16 15:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	10.2	1	03/14/16 13:29	03/14/16 15:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	13.4	1	03/14/16 13:29	03/14/16 15:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	200	12.1	1	03/14/16 13:29	03/14/16 15:02	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	8.1	1	03/14/16 13:29	03/14/16 15:02	108-90-7	
Chloroethane	ND	ug/kg	500	23.9	1	03/14/16 13:29	03/14/16 15:02	75-00-3	
Chloroform	ND	ug/kg	50.0	8.4	1	03/14/16 13:29	03/14/16 15:02	67-66-3	
Chloromethane	ND	ug/kg	200	10.1	1	03/14/16 13:29	03/14/16 15:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.3	1	03/14/16 13:29	03/14/16 15:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	9.4	1	03/14/16 13:29	03/14/16 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	38.7	1	03/14/16 13:29	03/14/16 15:02	96-12-8	
Dibromochloromethane	ND	ug/kg	200	7.7	1	03/14/16 13:29	03/14/16 15:02	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	8.0	1	03/14/16 13:29	03/14/16 15:02	106-93-4	
Dibromomethane	ND	ug/kg	50.0	11.8	1	03/14/16 13:29	03/14/16 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	12.1	1	03/14/16 13:29	03/14/16 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	12.2	1	03/14/16 13:29	03/14/16 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	10.6	1	03/14/16 13:29	03/14/16 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	12.3	1	03/14/16 13:29	03/14/16 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	9.6	1	03/14/16 13:29	03/14/16 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.2	1	03/14/16 13:29	03/14/16 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	11.4	1	03/14/16 13:29	03/14/16 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	17.8	1	03/14/16 13:29	03/14/16 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	8.2	1	03/14/16 13:29	03/14/16 15:02	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	47.0	1	03/14/16 13:29	03/14/16 15:02	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	10.2	1	03/14/16 13:29	03/14/16 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	7.8	1	03/14/16 13:29	03/14/16 15:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	20.2	1	03/14/16 13:29	03/14/16 15:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.0	1	03/14/16 13:29	03/14/16 15:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	5.2	1	03/14/16 13:29	03/14/16 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	19.4	1	03/14/16 13:29	03/14/16 15:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	16.3	1	03/14/16 13:29	03/14/16 15:02	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	7.5	1	03/14/16 13:29	03/14/16 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	21.3	1	03/14/16 13:29	03/14/16 15:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	9.1	1	03/14/16 13:29	03/14/16 15:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	8.7	1	03/14/16 13:29	03/14/16 15:02	99-87-6	
Methylene Chloride	ND	ug/kg	200	14.9	1	03/14/16 13:29	03/14/16 15:02	75-09-2	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: TRIP BLANK-3 **Lab ID: 10341254012** Collected: 03/07/16 07:00 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	63.6	1	03/14/16 13:29	03/14/16 15:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	9.4	1	03/14/16 13:29	03/14/16 15:02	1634-04-4	
Naphthalene	ND	ug/kg	200	72.1	1	03/14/16 13:29	03/14/16 15:02	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	10.7	1	03/14/16 13:29	03/14/16 15:02	103-65-1	
Styrene	ND	ug/kg	50.0	7.9	1	03/14/16 13:29	03/14/16 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/14/16 13:29	03/14/16 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/14/16 13:29	03/14/16 15:02	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	10.3	1	03/14/16 13:29	03/14/16 15:02	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	79.1	1	03/14/16 13:29	03/14/16 15:02	109-99-9	
Toluene	ND	ug/kg	50.0	9.6	1	03/14/16 13:29	03/14/16 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	19.4	1	03/14/16 13:29	03/14/16 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	03/14/16 13:29	03/14/16 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	9.7	1	03/14/16 13:29	03/14/16 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.7	1	03/14/16 13:29	03/14/16 15:02	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.1	1	03/14/16 13:29	03/14/16 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	34.6	1	03/14/16 13:29	03/14/16 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	13.8	1	03/14/16 13:29	03/14/16 15:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	11.8	1	03/14/16 13:29	03/14/16 15:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.0	1	03/14/16 13:29	03/14/16 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	9.7	1	03/14/16 13:29	03/14/16 15:02	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	9.0	1	03/14/16 13:29	03/14/16 15:02	75-01-4	
Xylene (Total)	ND	ug/kg	150	29.9	1	03/14/16 13:29	03/14/16 15:02	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-129		1	03/14/16 13:29	03/14/16 15:02	17060-07-0	
Toluene-d8 (S)	94	%.	75-125		1	03/14/16 13:29	03/14/16 15:02	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	75-125		1	03/14/16 13:29	03/14/16 15:02	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-49 **Lab ID: 10341254013** Collected: 03/11/16 12:30 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.2**	%	0.10	0.10	1		03/15/16 11:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	262	1	03/15/16 11:03	03/16/16 17:21	67-64-1	
Allyl chloride	ND	ug/kg	234	14.3	1	03/15/16 11:03	03/16/16 17:21	107-05-1	
Benzene	ND	ug/kg	23.4	12.4	1	03/15/16 11:03	03/16/16 17:21	71-43-2	
Bromobenzene	ND	ug/kg	58.4	14.1	1	03/15/16 11:03	03/16/16 17:21	108-86-1	
Bromochloromethane	ND	ug/kg	58.4	11.2	1	03/15/16 11:03	03/16/16 17:21	74-97-5	
Bromodichloromethane	ND	ug/kg	58.4	10.4	1	03/15/16 11:03	03/16/16 17:21	75-27-4	
Bromoform	ND	ug/kg	234	13.9	1	03/15/16 11:03	03/16/16 17:21	75-25-2	
Bromomethane	ND	ug/kg	584	103	1	03/15/16 11:03	03/16/16 17:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	97.0	1	03/15/16 11:03	03/16/16 17:21	78-93-3	
n-Butylbenzene	ND	ug/kg	58.4	11.0	1	03/15/16 11:03	03/16/16 17:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.4	11.9	1	03/15/16 11:03	03/16/16 17:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.4	15.7	1	03/15/16 11:03	03/16/16 17:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.4	14.1	1	03/15/16 11:03	03/16/16 17:21	56-23-5	
Chlorobenzene	ND	ug/kg	58.4	9.5	1	03/15/16 11:03	03/16/16 17:21	108-90-7	
Chloroethane	ND	ug/kg	584	27.9	1	03/15/16 11:03	03/16/16 17:21	75-00-3	
Chloroform	ND	ug/kg	58.4	9.8	1	03/15/16 11:03	03/16/16 17:21	67-66-3	
Chloromethane	ND	ug/kg	234	11.8	1	03/15/16 11:03	03/16/16 17:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.4	12.0	1	03/15/16 11:03	03/16/16 17:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.4	11.0	1	03/15/16 11:03	03/16/16 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	584	45.2	1	03/15/16 11:03	03/16/16 17:21	96-12-8	
Dibromochloromethane	ND	ug/kg	58.4	9.0	1	03/15/16 11:03	03/16/16 17:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.4	9.9	1	03/15/16 11:03	03/16/16 17:21	106-93-4	
Dibromomethane	ND	ug/kg	58.4	13.8	1	03/15/16 11:03	03/16/16 17:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.4	14.1	1	03/15/16 11:03	03/16/16 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.4	14.3	1	03/15/16 11:03	03/16/16 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.4	12.4	1	03/15/16 11:03	03/16/16 17:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	234	14.4	1	03/15/16 11:03	03/16/16 17:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.4	11.2	1	03/15/16 11:03	03/16/16 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.4	13.1	1	03/15/16 11:03	03/16/16 17:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.4	13.3	1	03/15/16 11:03	03/16/16 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.4	20.8	1	03/15/16 11:03	03/16/16 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.4	9.6	1	03/15/16 11:03	03/16/16 17:21	156-60-5	
Dichlorofluoromethane	ND	ug/kg	584	54.9	1	03/15/16 11:03	03/16/16 17:21	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.4	11.9	1	03/15/16 11:03	03/16/16 17:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.4	9.1	1	03/15/16 11:03	03/16/16 17:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	234	23.6	1	03/15/16 11:03	03/16/16 17:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.4	11.7	1	03/15/16 11:03	03/16/16 17:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.4	6.1	1	03/15/16 11:03	03/16/16 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	234	22.7	1	03/15/16 11:03	03/16/16 17:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	234	19.0	1	03/15/16 11:03	03/16/16 17:21	60-29-7	
Ethylbenzene	ND	ug/kg	58.4	9.4	1	03/15/16 11:03	03/16/16 17:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/15/16 11:03	03/16/16 17:21	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-49 **Lab ID: 10341254013** Collected: 03/11/16 12:30 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.4	10.6	1	03/15/16 11:03	03/16/16 17:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.4	10.2	1	03/15/16 11:03	03/16/16 17:21	99-87-6	
Methylene Chloride	ND	ug/kg	234	17.4	1	03/15/16 11:03	03/16/16 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.3	1	03/15/16 11:03	03/16/16 17:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.4	15.8	1	03/15/16 11:03	03/16/16 17:21	1634-04-4	
Naphthalene	ND	ug/kg	234	84.3	1	03/15/16 11:03	03/16/16 17:21	91-20-3	
n-Propylbenzene	ND	ug/kg	58.4	14.7	1	03/15/16 11:03	03/16/16 17:21	103-65-1	
Styrene	ND	ug/kg	58.4	9.3	1	03/15/16 11:03	03/16/16 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/15/16 11:03	03/16/16 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/15/16 11:03	03/16/16 17:21	79-34-5	
Tetrachloroethene	ND	ug/kg	58.4	12.0	1	03/15/16 11:03	03/16/16 17:21	127-18-4	
Tetrahydrofuran	ND	ug/kg	2340	92.4	1	03/15/16 11:03	03/16/16 17:21	109-99-9	
Toluene	ND	ug/kg	58.4	11.2	1	03/15/16 11:03	03/16/16 17:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.4	22.7	1	03/15/16 11:03	03/16/16 17:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	234	10.6	1	03/15/16 11:03	03/16/16 17:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.4	11.4	1	03/15/16 11:03	03/16/16 17:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.4	16.0	1	03/15/16 11:03	03/16/16 17:21	79-00-5	
Trichloroethene	ND	ug/kg	58.4	14.1	1	03/15/16 11:03	03/16/16 17:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	234	40.4	1	03/15/16 11:03	03/16/16 17:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	234	16.1	1	03/15/16 11:03	03/16/16 17:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	234	13.8	1	03/15/16 11:03	03/16/16 17:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.4	11.7	1	03/15/16 11:03	03/16/16 17:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.4	13.1	1	03/15/16 11:03	03/16/16 17:21	108-67-8	
Vinyl chloride	ND	ug/kg	58.4	10.5	1	03/15/16 11:03	03/16/16 17:21	75-01-4	
Xylene (Total)	ND	ug/kg	175	35.0	1	03/15/16 11:03	03/16/16 17:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-129		1	03/15/16 11:03	03/16/16 17:21	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 17:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1	03/15/16 11:03	03/16/16 17:21	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-50 **Lab ID: 10341254014** Collected: 03/11/16 12:35 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.2**	%	0.10	0.10	1		03/15/16 11:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1130	254	1	03/15/16 11:03	03/16/16 17:39	67-64-1	
Allyl chloride	ND	ug/kg	227	13.8	1	03/15/16 11:03	03/16/16 17:39	107-05-1	
Benzene	ND	ug/kg	22.7	12.0	1	03/15/16 11:03	03/16/16 17:39	71-43-2	
Bromobenzene	ND	ug/kg	56.6	13.7	1	03/15/16 11:03	03/16/16 17:39	108-86-1	
Bromochloromethane	ND	ug/kg	56.6	10.9	1	03/15/16 11:03	03/16/16 17:39	74-97-5	
Bromodichloromethane	ND	ug/kg	56.6	10.1	1	03/15/16 11:03	03/16/16 17:39	75-27-4	
Bromoform	ND	ug/kg	227	13.5	1	03/15/16 11:03	03/16/16 17:39	75-25-2	
Bromomethane	ND	ug/kg	566	99.5	1	03/15/16 11:03	03/16/16 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	283	94.0	1	03/15/16 11:03	03/16/16 17:39	78-93-3	
n-Butylbenzene	ND	ug/kg	56.6	10.6	1	03/15/16 11:03	03/16/16 17:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.6	11.6	1	03/15/16 11:03	03/16/16 17:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.6	15.2	1	03/15/16 11:03	03/16/16 17:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.6	13.7	1	03/15/16 11:03	03/16/16 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	56.6	9.2	1	03/15/16 11:03	03/16/16 17:39	108-90-7	
Chloroethane	ND	ug/kg	566	27.1	1	03/15/16 11:03	03/16/16 17:39	75-00-3	
Chloroform	ND	ug/kg	56.6	9.5	1	03/15/16 11:03	03/16/16 17:39	67-66-3	
Chloromethane	ND	ug/kg	227	11.4	1	03/15/16 11:03	03/16/16 17:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.6	11.7	1	03/15/16 11:03	03/16/16 17:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.6	10.6	1	03/15/16 11:03	03/16/16 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	566	43.8	1	03/15/16 11:03	03/16/16 17:39	96-12-8	
Dibromochloromethane	ND	ug/kg	56.6	8.8	1	03/15/16 11:03	03/16/16 17:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.6	9.6	1	03/15/16 11:03	03/16/16 17:39	106-93-4	
Dibromomethane	ND	ug/kg	56.6	13.4	1	03/15/16 11:03	03/16/16 17:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.6	13.7	1	03/15/16 11:03	03/16/16 17:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.6	13.8	1	03/15/16 11:03	03/16/16 17:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.6	12.0	1	03/15/16 11:03	03/16/16 17:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	227	13.9	1	03/15/16 11:03	03/16/16 17:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.6	10.8	1	03/15/16 11:03	03/16/16 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.6	12.7	1	03/15/16 11:03	03/16/16 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.6	12.9	1	03/15/16 11:03	03/16/16 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.6	20.2	1	03/15/16 11:03	03/16/16 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.6	9.3	1	03/15/16 11:03	03/16/16 17:39	156-60-5	
Dichlorofluoromethane	ND	ug/kg	566	53.2	1	03/15/16 11:03	03/16/16 17:39	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.6	11.6	1	03/15/16 11:03	03/16/16 17:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.6	8.9	1	03/15/16 11:03	03/16/16 17:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	227	22.9	1	03/15/16 11:03	03/16/16 17:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.6	11.3	1	03/15/16 11:03	03/16/16 17:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.6	5.9	1	03/15/16 11:03	03/16/16 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	227	22.0	1	03/15/16 11:03	03/16/16 17:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	227	18.5	1	03/15/16 11:03	03/16/16 17:39	60-29-7	
Ethylbenzene	ND	ug/kg	56.6	9.1	1	03/15/16 11:03	03/16/16 17:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	283	24.1	1	03/15/16 11:03	03/16/16 17:39	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-50 **Lab ID: 10341254014** Collected: 03/11/16 12:35 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.6	10.3	1	03/15/16 11:03	03/16/16 17:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.6	9.9	1	03/15/16 11:03	03/16/16 17:39	99-87-6	
Methylene Chloride	ND	ug/kg	227	16.9	1	03/15/16 11:03	03/16/16 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	283	72.0	1	03/15/16 11:03	03/16/16 17:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.6	15.3	1	03/15/16 11:03	03/16/16 17:39	1634-04-4	
Naphthalene	ND	ug/kg	227	81.7	1	03/15/16 11:03	03/16/16 17:39	91-20-3	
n-Propylbenzene	ND	ug/kg	56.6	14.3	1	03/15/16 11:03	03/16/16 17:39	103-65-1	
Styrene	ND	ug/kg	56.6	9.0	1	03/15/16 11:03	03/16/16 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.6	10.9	1	03/15/16 11:03	03/16/16 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.6	10.8	1	03/15/16 11:03	03/16/16 17:39	79-34-5	
Tetrachloroethene	**70.3**	ug/kg	56.6	11.7	1	03/15/16 11:03	03/16/16 17:39	127-18-4	
Tetrahydrofuran	ND	ug/kg	2270	89.6	1	03/15/16 11:03	03/16/16 17:39	109-99-9	
Toluene	ND	ug/kg	56.6	10.9	1	03/15/16 11:03	03/16/16 17:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.6	22.0	1	03/15/16 11:03	03/16/16 17:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	227	10.3	1	03/15/16 11:03	03/16/16 17:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.6	11.0	1	03/15/16 11:03	03/16/16 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.6	15.5	1	03/15/16 11:03	03/16/16 17:39	79-00-5	
Trichloroethene	ND	ug/kg	56.6	13.7	1	03/15/16 11:03	03/16/16 17:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	227	39.2	1	03/15/16 11:03	03/16/16 17:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	227	15.6	1	03/15/16 11:03	03/16/16 17:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	227	13.4	1	03/15/16 11:03	03/16/16 17:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.6	11.3	1	03/15/16 11:03	03/16/16 17:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.6	12.7	1	03/15/16 11:03	03/16/16 17:39	108-67-8	
Vinyl chloride	ND	ug/kg	56.6	10.2	1	03/15/16 11:03	03/16/16 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	170	33.9	1	03/15/16 11:03	03/16/16 17:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/15/16 11:03	03/16/16 17:39	17060-07-0	
Toluene-d8 (S)	95	%.	75-125		1	03/15/16 11:03	03/16/16 17:39	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1	03/15/16 11:03	03/16/16 17:39	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-53 **Lab ID: 10341254015** Collected: 03/11/16 12:45 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.4**	%	0.10	0.10	1		03/15/16 11:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	256	1	03/15/16 11:03	03/16/16 17:57	67-64-1	
Allyl chloride	ND	ug/kg	229	13.9	1	03/15/16 11:03	03/16/16 17:57	107-05-1	
Benzene	ND	ug/kg	22.9	12.1	1	03/15/16 11:03	03/16/16 17:57	71-43-2	
Bromobenzene	ND	ug/kg	57.2	13.8	1	03/15/16 11:03	03/16/16 17:57	108-86-1	
Bromochloromethane	ND	ug/kg	57.2	11.0	1	03/15/16 11:03	03/16/16 17:57	74-97-5	
Bromodichloromethane	ND	ug/kg	57.2	10.2	1	03/15/16 11:03	03/16/16 17:57	75-27-4	
Bromoform	ND	ug/kg	229	13.6	1	03/15/16 11:03	03/16/16 17:57	75-25-2	
Bromomethane	ND	ug/kg	572	100	1	03/15/16 11:03	03/16/16 17:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	286	94.9	1	03/15/16 11:03	03/16/16 17:57	78-93-3	
n-Butylbenzene	ND	ug/kg	57.2	10.7	1	03/15/16 11:03	03/16/16 17:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.2	11.7	1	03/15/16 11:03	03/16/16 17:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.2	15.3	1	03/15/16 11:03	03/16/16 17:57	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.2	13.8	1	03/15/16 11:03	03/16/16 17:57	56-23-5	
Chlorobenzene	ND	ug/kg	57.2	9.3	1	03/15/16 11:03	03/16/16 17:57	108-90-7	
Chloroethane	ND	ug/kg	572	27.3	1	03/15/16 11:03	03/16/16 17:57	75-00-3	
Chloroform	ND	ug/kg	57.2	9.6	1	03/15/16 11:03	03/16/16 17:57	67-66-3	
Chloromethane	ND	ug/kg	229	11.5	1	03/15/16 11:03	03/16/16 17:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.2	11.8	1	03/15/16 11:03	03/16/16 17:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.2	10.7	1	03/15/16 11:03	03/16/16 17:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	572	44.2	1	03/15/16 11:03	03/16/16 17:57	96-12-8	
Dibromochloromethane	ND	ug/kg	57.2	8.8	1	03/15/16 11:03	03/16/16 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.2	9.7	1	03/15/16 11:03	03/16/16 17:57	106-93-4	
Dibromomethane	ND	ug/kg	57.2	13.5	1	03/15/16 11:03	03/16/16 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.2	13.8	1	03/15/16 11:03	03/16/16 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.2	13.9	1	03/15/16 11:03	03/16/16 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.2	12.1	1	03/15/16 11:03	03/16/16 17:57	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	229	14.1	1	03/15/16 11:03	03/16/16 17:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.2	10.9	1	03/15/16 11:03	03/16/16 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.2	12.8	1	03/15/16 11:03	03/16/16 17:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.2	13.0	1	03/15/16 11:03	03/16/16 17:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.2	20.4	1	03/15/16 11:03	03/16/16 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.2	9.4	1	03/15/16 11:03	03/16/16 17:57	156-60-5	
Dichlorofluoromethane	ND	ug/kg	572	53.7	1	03/15/16 11:03	03/16/16 17:57	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.2	11.7	1	03/15/16 11:03	03/16/16 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.2	9.0	1	03/15/16 11:03	03/16/16 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	229	23.1	1	03/15/16 11:03	03/16/16 17:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.2	11.4	1	03/15/16 11:03	03/16/16 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.2	5.9	1	03/15/16 11:03	03/16/16 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	229	22.2	1	03/15/16 11:03	03/16/16 17:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	229	18.6	1	03/15/16 11:03	03/16/16 17:57	60-29-7	
Ethylbenzene	ND	ug/kg	57.2	9.2	1	03/15/16 11:03	03/16/16 17:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	286	24.4	1	03/15/16 11:03	03/16/16 17:57	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-53 **Lab ID: 10341254015** Collected: 03/11/16 12:45 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.2	10.4	1	03/15/16 11:03	03/16/16 17:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.2	10	1	03/15/16 11:03	03/16/16 17:57	99-87-6	
Methylene Chloride	ND	ug/kg	229	17.0	1	03/15/16 11:03	03/16/16 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	286	72.7	1	03/15/16 11:03	03/16/16 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.2	15.4	1	03/15/16 11:03	03/16/16 17:57	1634-04-4	
Naphthalene	ND	ug/kg	229	82.4	1	03/15/16 11:03	03/16/16 17:57	91-20-3	
n-Propylbenzene	ND	ug/kg	57.2	14.4	1	03/15/16 11:03	03/16/16 17:57	103-65-1	
Styrene	ND	ug/kg	57.2	9.1	1	03/15/16 11:03	03/16/16 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.2	11.0	1	03/15/16 11:03	03/16/16 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.2	10.9	1	03/15/16 11:03	03/16/16 17:57	79-34-5	
Tetrachloroethene	**152**	ug/kg	57.2	11.8	1	03/15/16 11:03	03/16/16 17:57	127-18-4	
Tetrahydrofuran	ND	ug/kg	2290	90.4	1	03/15/16 11:03	03/16/16 17:57	109-99-9	
Toluene	ND	ug/kg	57.2	11.0	1	03/15/16 11:03	03/16/16 17:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.2	22.2	1	03/15/16 11:03	03/16/16 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	229	10.4	1	03/15/16 11:03	03/16/16 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.2	11.1	1	03/15/16 11:03	03/16/16 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.2	15.7	1	03/15/16 11:03	03/16/16 17:57	79-00-5	
Trichloroethene	ND	ug/kg	57.2	13.8	1	03/15/16 11:03	03/16/16 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	229	39.6	1	03/15/16 11:03	03/16/16 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	229	15.8	1	03/15/16 11:03	03/16/16 17:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	229	13.5	1	03/15/16 11:03	03/16/16 17:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.2	11.4	1	03/15/16 11:03	03/16/16 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.2	12.8	1	03/15/16 11:03	03/16/16 17:57	108-67-8	
Vinyl chloride	ND	ug/kg	57.2	10.3	1	03/15/16 11:03	03/16/16 17:57	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.2	1	03/15/16 11:03	03/16/16 17:57	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/15/16 11:03	03/16/16 17:57	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 17:57	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1	03/15/16 11:03	03/16/16 17:57	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-4 **Lab ID: 10341254016** Collected: 03/11/16 12:50 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.0**	%	0.10	0.10	1		03/15/16 11:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1120	251	1	03/15/16 11:03	03/16/16 18:15	67-64-1	
Allyl chloride	ND	ug/kg	224	13.7	1	03/15/16 11:03	03/16/16 18:15	107-05-1	
Benzene	ND	ug/kg	22.4	11.9	1	03/15/16 11:03	03/16/16 18:15	71-43-2	
Bromobenzene	ND	ug/kg	56.0	13.5	1	03/15/16 11:03	03/16/16 18:15	108-86-1	
Bromochloromethane	ND	ug/kg	56.0	10.7	1	03/15/16 11:03	03/16/16 18:15	74-97-5	
Bromodichloromethane	ND	ug/kg	56.0	10	1	03/15/16 11:03	03/16/16 18:15	75-27-4	
Bromoform	ND	ug/kg	224	13.3	1	03/15/16 11:03	03/16/16 18:15	75-25-2	
Bromomethane	ND	ug/kg	560	98.3	1	03/15/16 11:03	03/16/16 18:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	280	92.9	1	03/15/16 11:03	03/16/16 18:15	78-93-3	
n-Butylbenzene	ND	ug/kg	56.0	10.5	1	03/15/16 11:03	03/16/16 18:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.0	11.4	1	03/15/16 11:03	03/16/16 18:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.0	15.0	1	03/15/16 11:03	03/16/16 18:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.0	13.5	1	03/15/16 11:03	03/16/16 18:15	56-23-5	
Chlorobenzene	ND	ug/kg	56.0	9.1	1	03/15/16 11:03	03/16/16 18:15	108-90-7	
Chloroethane	ND	ug/kg	560	26.7	1	03/15/16 11:03	03/16/16 18:15	75-00-3	
Chloroform	ND	ug/kg	56.0	9.4	1	03/15/16 11:03	03/16/16 18:15	67-66-3	
Chloromethane	ND	ug/kg	224	11.3	1	03/15/16 11:03	03/16/16 18:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.0	11.5	1	03/15/16 11:03	03/16/16 18:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.0	10.5	1	03/15/16 11:03	03/16/16 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	560	43.3	1	03/15/16 11:03	03/16/16 18:15	96-12-8	
Dibromochloromethane	ND	ug/kg	56.0	8.7	1	03/15/16 11:03	03/16/16 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.0	9.5	1	03/15/16 11:03	03/16/16 18:15	106-93-4	
Dibromomethane	ND	ug/kg	56.0	13.2	1	03/15/16 11:03	03/16/16 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.0	13.5	1	03/15/16 11:03	03/16/16 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.0	13.7	1	03/15/16 11:03	03/16/16 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.0	11.9	1	03/15/16 11:03	03/16/16 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	224	13.8	1	03/15/16 11:03	03/16/16 18:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.0	10.7	1	03/15/16 11:03	03/16/16 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.0	12.5	1	03/15/16 11:03	03/16/16 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.0	12.8	1	03/15/16 11:03	03/16/16 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.0	19.9	1	03/15/16 11:03	03/16/16 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.0	9.2	1	03/15/16 11:03	03/16/16 18:15	156-60-5	
Dichlorofluoromethane	ND	ug/kg	560	52.6	1	03/15/16 11:03	03/16/16 18:15	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.0	11.4	1	03/15/16 11:03	03/16/16 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.0	8.8	1	03/15/16 11:03	03/16/16 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	224	22.6	1	03/15/16 11:03	03/16/16 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.0	11.2	1	03/15/16 11:03	03/16/16 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.0	5.8	1	03/15/16 11:03	03/16/16 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	224	21.7	1	03/15/16 11:03	03/16/16 18:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	224	18.2	1	03/15/16 11:03	03/16/16 18:15	60-29-7	
Ethylbenzene	ND	ug/kg	56.0	9.0	1	03/15/16 11:03	03/16/16 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	280	23.8	1	03/15/16 11:03	03/16/16 18:15	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-4 **Lab ID: 10341254016** Collected: 03/11/16 12:50 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.0	10.2	1	03/15/16 11:03	03/16/16 18:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.0	9.8	1	03/15/16 11:03	03/16/16 18:15	99-87-6	
Methylene Chloride	ND	ug/kg	224	16.7	1	03/15/16 11:03	03/16/16 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	280	71.2	1	03/15/16 11:03	03/16/16 18:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.0	15.1	1	03/15/16 11:03	03/16/16 18:15	1634-04-4	
Naphthalene	ND	ug/kg	224	80.7	1	03/15/16 11:03	03/16/16 18:15	91-20-3	
n-Propylbenzene	ND	ug/kg	56.0	14.1	1	03/15/16 11:03	03/16/16 18:15	103-65-1	
Styrene	ND	ug/kg	56.0	8.9	1	03/15/16 11:03	03/16/16 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.0	10.8	1	03/15/16 11:03	03/16/16 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.0	10.7	1	03/15/16 11:03	03/16/16 18:15	79-34-5	
Tetrachloroethene	**116**	ug/kg	56.0	11.5	1	03/15/16 11:03	03/16/16 18:15	127-18-4	
Tetrahydrofuran	ND	ug/kg	2240	88.5	1	03/15/16 11:03	03/16/16 18:15	109-99-9	
Toluene	ND	ug/kg	56.0	10.7	1	03/15/16 11:03	03/16/16 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.0	21.7	1	03/15/16 11:03	03/16/16 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	224	10.2	1	03/15/16 11:03	03/16/16 18:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.0	10.9	1	03/15/16 11:03	03/16/16 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.0	15.3	1	03/15/16 11:03	03/16/16 18:15	79-00-5	
Trichloroethene	ND	ug/kg	56.0	13.5	1	03/15/16 11:03	03/16/16 18:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	224	38.7	1	03/15/16 11:03	03/16/16 18:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	224	15.4	1	03/15/16 11:03	03/16/16 18:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	224	13.2	1	03/15/16 11:03	03/16/16 18:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.0	11.2	1	03/15/16 11:03	03/16/16 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.0	12.5	1	03/15/16 11:03	03/16/16 18:15	108-67-8	
Vinyl chloride	ND	ug/kg	56.0	10.1	1	03/15/16 11:03	03/16/16 18:15	75-01-4	
Xylene (Total)	ND	ug/kg	168	33.5	1	03/15/16 11:03	03/16/16 18:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/15/16 11:03	03/16/16 18:15	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/15/16 11:03	03/16/16 18:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1	03/15/16 11:03	03/16/16 18:15	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-55 **Lab ID: 10341254017** Collected: 03/11/16 12:55 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.3**	%	0.10	0.10	1		03/15/16 11:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	269	1	03/15/16 11:03	03/16/16 18:33	67-64-1	
Allyl chloride	ND	ug/kg	240	14.6	1	03/15/16 11:03	03/16/16 18:33	107-05-1	
Benzene	ND	ug/kg	24.0	12.7	1	03/15/16 11:03	03/16/16 18:33	71-43-2	
Bromobenzene	ND	ug/kg	59.9	14.5	1	03/15/16 11:03	03/16/16 18:33	108-86-1	
Bromochloromethane	ND	ug/kg	59.9	11.5	1	03/15/16 11:03	03/16/16 18:33	74-97-5	
Bromodichloromethane	ND	ug/kg	59.9	10.7	1	03/15/16 11:03	03/16/16 18:33	75-27-4	
Bromoform	ND	ug/kg	240	14.3	1	03/15/16 11:03	03/16/16 18:33	75-25-2	
Bromomethane	ND	ug/kg	599	105	1	03/15/16 11:03	03/16/16 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	300	99.5	1	03/15/16 11:03	03/16/16 18:33	78-93-3	
n-Butylbenzene	ND	ug/kg	59.9	11.3	1	03/15/16 11:03	03/16/16 18:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.9	12.2	1	03/15/16 11:03	03/16/16 18:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.9	16.1	1	03/15/16 11:03	03/16/16 18:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.9	14.5	1	03/15/16 11:03	03/16/16 18:33	56-23-5	
Chlorobenzene	ND	ug/kg	59.9	9.7	1	03/15/16 11:03	03/16/16 18:33	108-90-7	
Chloroethane	ND	ug/kg	599	28.7	1	03/15/16 11:03	03/16/16 18:33	75-00-3	
Chloroform	ND	ug/kg	59.9	10.0	1	03/15/16 11:03	03/16/16 18:33	67-66-3	
Chloromethane	ND	ug/kg	240	12.1	1	03/15/16 11:03	03/16/16 18:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.9	12.3	1	03/15/16 11:03	03/16/16 18:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.9	11.3	1	03/15/16 11:03	03/16/16 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	599	46.4	1	03/15/16 11:03	03/16/16 18:33	96-12-8	
Dibromochloromethane	ND	ug/kg	59.9	9.3	1	03/15/16 11:03	03/16/16 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.9	10.2	1	03/15/16 11:03	03/16/16 18:33	106-93-4	
Dibromomethane	ND	ug/kg	59.9	14.1	1	03/15/16 11:03	03/16/16 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.9	14.5	1	03/15/16 11:03	03/16/16 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.9	14.6	1	03/15/16 11:03	03/16/16 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.9	12.7	1	03/15/16 11:03	03/16/16 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	240	14.7	1	03/15/16 11:03	03/16/16 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.9	11.5	1	03/15/16 11:03	03/16/16 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.9	13.4	1	03/15/16 11:03	03/16/16 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.9	13.7	1	03/15/16 11:03	03/16/16 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.9	21.3	1	03/15/16 11:03	03/16/16 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.9	9.8	1	03/15/16 11:03	03/16/16 18:33	156-60-5	
Dichlorofluoromethane	ND	ug/kg	599	56.4	1	03/15/16 11:03	03/16/16 18:33	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.9	12.2	1	03/15/16 11:03	03/16/16 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.9	9.4	1	03/15/16 11:03	03/16/16 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	240	24.2	1	03/15/16 11:03	03/16/16 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.9	12.0	1	03/15/16 11:03	03/16/16 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.9	6.2	1	03/15/16 11:03	03/16/16 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	240	23.3	1	03/15/16 11:03	03/16/16 18:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	240	19.5	1	03/15/16 11:03	03/16/16 18:33	60-29-7	
Ethylbenzene	ND	ug/kg	59.9	9.6	1	03/15/16 11:03	03/16/16 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	300	25.5	1	03/15/16 11:03	03/16/16 18:33	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-55 **Lab ID: 10341254017** Collected: 03/11/16 12:55 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.9	10.9	1	03/15/16 11:03	03/16/16 18:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.9	10.5	1	03/15/16 11:03	03/16/16 18:33	99-87-6	
Methylene Chloride	ND	ug/kg	240	17.9	1	03/15/16 11:03	03/16/16 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	300	76.3	1	03/15/16 11:03	03/16/16 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.9	16.2	1	03/15/16 11:03	03/16/16 18:33	1634-04-4	
Naphthalene	ND	ug/kg	240	86.4	1	03/15/16 11:03	03/16/16 18:33	91-20-3	
n-Propylbenzene	ND	ug/kg	59.9	15.1	1	03/15/16 11:03	03/16/16 18:33	103-65-1	
Styrene	ND	ug/kg	59.9	9.5	1	03/15/16 11:03	03/16/16 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.9	11.5	1	03/15/16 11:03	03/16/16 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.9	11.5	1	03/15/16 11:03	03/16/16 18:33	79-34-5	
Tetrachloroethene	**99.6**	ug/kg	59.9	12.3	1	03/15/16 11:03	03/16/16 18:33	127-18-4	
Tetrahydrofuran	ND	ug/kg	2400	94.8	1	03/15/16 11:03	03/16/16 18:33	109-99-9	
Toluene	ND	ug/kg	59.9	11.5	1	03/15/16 11:03	03/16/16 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.9	23.3	1	03/15/16 11:03	03/16/16 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	240	10.9	1	03/15/16 11:03	03/16/16 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.9	11.7	1	03/15/16 11:03	03/16/16 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.9	16.4	1	03/15/16 11:03	03/16/16 18:33	79-00-5	
Trichloroethene	ND	ug/kg	59.9	14.5	1	03/15/16 11:03	03/16/16 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	240	41.5	1	03/15/16 11:03	03/16/16 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	240	16.5	1	03/15/16 11:03	03/16/16 18:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	240	14.1	1	03/15/16 11:03	03/16/16 18:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.9	12.0	1	03/15/16 11:03	03/16/16 18:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.9	13.4	1	03/15/16 11:03	03/16/16 18:33	108-67-8	
Vinyl chloride	ND	ug/kg	59.9	10.8	1	03/15/16 11:03	03/16/16 18:33	75-01-4	
Xylene (Total)	ND	ug/kg	180	35.9	1	03/15/16 11:03	03/16/16 18:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/15/16 11:03	03/16/16 18:33	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 18:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1	03/15/16 11:03	03/16/16 18:33	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-5 **Lab ID: 10341254018** Collected: 03/11/16 13:00 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.7**	%	0.10	0.10	1		03/15/16 11:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	266	1	03/15/16 11:03	03/16/16 18:51	67-64-1	
Allyl chloride	ND	ug/kg	237	14.5	1	03/15/16 11:03	03/16/16 18:51	107-05-1	
Benzene	ND	ug/kg	23.7	12.6	1	03/15/16 11:03	03/16/16 18:51	71-43-2	
Bromobenzene	ND	ug/kg	59.3	14.4	1	03/15/16 11:03	03/16/16 18:51	108-86-1	
Bromochloromethane	ND	ug/kg	59.3	11.4	1	03/15/16 11:03	03/16/16 18:51	74-97-5	
Bromodichloromethane	ND	ug/kg	59.3	10.6	1	03/15/16 11:03	03/16/16 18:51	75-27-4	
Bromoform	ND	ug/kg	237	14.1	1	03/15/16 11:03	03/16/16 18:51	75-25-2	
Bromomethane	ND	ug/kg	593	104	1	03/15/16 11:03	03/16/16 18:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	297	98.5	1	03/15/16 11:03	03/16/16 18:51	78-93-3	
n-Butylbenzene	ND	ug/kg	59.3	11.2	1	03/15/16 11:03	03/16/16 18:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.3	12.1	1	03/15/16 11:03	03/16/16 18:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.3	15.9	1	03/15/16 11:03	03/16/16 18:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.3	14.4	1	03/15/16 11:03	03/16/16 18:51	56-23-5	
Chlorobenzene	ND	ug/kg	59.3	9.6	1	03/15/16 11:03	03/16/16 18:51	108-90-7	
Chloroethane	ND	ug/kg	593	28.4	1	03/15/16 11:03	03/16/16 18:51	75-00-3	
Chloroform	ND	ug/kg	59.3	9.9	1	03/15/16 11:03	03/16/16 18:51	67-66-3	
Chloromethane	ND	ug/kg	237	12.0	1	03/15/16 11:03	03/16/16 18:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.3	12.2	1	03/15/16 11:03	03/16/16 18:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.3	11.1	1	03/15/16 11:03	03/16/16 18:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	593	45.9	1	03/15/16 11:03	03/16/16 18:51	96-12-8	
Dibromochloromethane	ND	ug/kg	59.3	9.2	1	03/15/16 11:03	03/16/16 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.3	10.1	1	03/15/16 11:03	03/16/16 18:51	106-93-4	
Dibromomethane	ND	ug/kg	59.3	14.0	1	03/15/16 11:03	03/16/16 18:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.3	14.4	1	03/15/16 11:03	03/16/16 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.3	14.5	1	03/15/16 11:03	03/16/16 18:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.3	12.6	1	03/15/16 11:03	03/16/16 18:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	14.6	1	03/15/16 11:03	03/16/16 18:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.3	11.3	1	03/15/16 11:03	03/16/16 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.3	13.3	1	03/15/16 11:03	03/16/16 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.3	13.5	1	03/15/16 11:03	03/16/16 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.3	21.1	1	03/15/16 11:03	03/16/16 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.3	9.7	1	03/15/16 11:03	03/16/16 18:51	156-60-5	
Dichlorofluoromethane	ND	ug/kg	593	55.8	1	03/15/16 11:03	03/16/16 18:51	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.3	12.1	1	03/15/16 11:03	03/16/16 18:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.3	9.3	1	03/15/16 11:03	03/16/16 18:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	24.0	1	03/15/16 11:03	03/16/16 18:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.3	11.9	1	03/15/16 11:03	03/16/16 18:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.3	6.2	1	03/15/16 11:03	03/16/16 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	237	23.0	1	03/15/16 11:03	03/16/16 18:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	19.3	1	03/15/16 11:03	03/16/16 18:51	60-29-7	
Ethylbenzene	ND	ug/kg	59.3	9.5	1	03/15/16 11:03	03/16/16 18:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	297	25.3	1	03/15/16 11:03	03/16/16 18:51	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: DUP-S-5 **Lab ID: 10341254018** Collected: 03/11/16 13:00 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.3	10.8	1	03/15/16 11:03	03/16/16 18:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.3	10.4	1	03/15/16 11:03	03/16/16 18:51	99-87-6	
Methylene Chloride	ND	ug/kg	237	17.7	1	03/15/16 11:03	03/16/16 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	297	75.5	1	03/15/16 11:03	03/16/16 18:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.3	16.0	1	03/15/16 11:03	03/16/16 18:51	1634-04-4	
Naphthalene	ND	ug/kg	237	85.6	1	03/15/16 11:03	03/16/16 18:51	91-20-3	
n-Propylbenzene	ND	ug/kg	59.3	15.0	1	03/15/16 11:03	03/16/16 18:51	103-65-1	
Styrene	ND	ug/kg	59.3	9.4	1	03/15/16 11:03	03/16/16 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.3	11.4	1	03/15/16 11:03	03/16/16 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.3	11.4	1	03/15/16 11:03	03/16/16 18:51	79-34-5	
Tetrachloroethene	**86.2**	ug/kg	59.3	12.2	1	03/15/16 11:03	03/16/16 18:51	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	93.9	1	03/15/16 11:03	03/16/16 18:51	109-99-9	
Toluene	ND	ug/kg	59.3	11.4	1	03/15/16 11:03	03/16/16 18:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.3	23.0	1	03/15/16 11:03	03/16/16 18:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	237	10.8	1	03/15/16 11:03	03/16/16 18:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.3	11.5	1	03/15/16 11:03	03/16/16 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.3	16.3	1	03/15/16 11:03	03/16/16 18:51	79-00-5	
Trichloroethene	ND	ug/kg	59.3	14.4	1	03/15/16 11:03	03/16/16 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	41.1	1	03/15/16 11:03	03/16/16 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	16.4	1	03/15/16 11:03	03/16/16 18:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	14.0	1	03/15/16 11:03	03/16/16 18:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.3	11.9	1	03/15/16 11:03	03/16/16 18:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.3	13.3	1	03/15/16 11:03	03/16/16 18:51	108-67-8	
Vinyl chloride	ND	ug/kg	59.3	10.7	1	03/15/16 11:03	03/16/16 18:51	75-01-4	
Xylene (Total)	ND	ug/kg	178	35.5	1	03/15/16 11:03	03/16/16 18:51	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-129		1	03/15/16 11:03	03/16/16 18:51	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/15/16 11:03	03/16/16 18:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1	03/15/16 11:03	03/16/16 18:51	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-58 **Lab ID: 10341254019** Collected: 03/11/16 13:05 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.9**	%	0.10	0.10	1		03/15/16 11:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1120	250	1	03/15/16 11:03	03/16/16 19:09	67-64-1	
Allyl chloride	ND	ug/kg	224	13.6	1	03/15/16 11:03	03/16/16 19:09	107-05-1	
Benzene	ND	ug/kg	22.4	11.8	1	03/15/16 11:03	03/16/16 19:09	71-43-2	
Bromobenzene	ND	ug/kg	55.9	13.5	1	03/15/16 11:03	03/16/16 19:09	108-86-1	
Bromochloromethane	ND	ug/kg	55.9	10.7	1	03/15/16 11:03	03/16/16 19:09	74-97-5	
Bromodichloromethane	ND	ug/kg	55.9	9.9	1	03/15/16 11:03	03/16/16 19:09	75-27-4	
Bromoform	ND	ug/kg	224	13.3	1	03/15/16 11:03	03/16/16 19:09	75-25-2	
Bromomethane	ND	ug/kg	559	98.1	1	03/15/16 11:03	03/16/16 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	279	92.8	1	03/15/16 11:03	03/16/16 19:09	78-93-3	
n-Butylbenzene	ND	ug/kg	55.9	10.5	1	03/15/16 11:03	03/16/16 19:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.9	11.4	1	03/15/16 11:03	03/16/16 19:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.9	15.0	1	03/15/16 11:03	03/16/16 19:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.9	13.5	1	03/15/16 11:03	03/16/16 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	55.9	9.1	1	03/15/16 11:03	03/16/16 19:09	108-90-7	
Chloroethane	ND	ug/kg	559	26.7	1	03/15/16 11:03	03/16/16 19:09	75-00-3	
Chloroform	ND	ug/kg	55.9	9.4	1	03/15/16 11:03	03/16/16 19:09	67-66-3	
Chloromethane	ND	ug/kg	224	11.3	1	03/15/16 11:03	03/16/16 19:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.9	11.5	1	03/15/16 11:03	03/16/16 19:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.9	10.5	1	03/15/16 11:03	03/16/16 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	559	43.2	1	03/15/16 11:03	03/16/16 19:09	96-12-8	
Dibromochloromethane	ND	ug/kg	55.9	8.6	1	03/15/16 11:03	03/16/16 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.9	9.5	1	03/15/16 11:03	03/16/16 19:09	106-93-4	
Dibromomethane	ND	ug/kg	55.9	13.2	1	03/15/16 11:03	03/16/16 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.9	13.5	1	03/15/16 11:03	03/16/16 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.9	13.6	1	03/15/16 11:03	03/16/16 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.9	11.8	1	03/15/16 11:03	03/16/16 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	224	13.7	1	03/15/16 11:03	03/16/16 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.9	10.7	1	03/15/16 11:03	03/16/16 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.9	12.5	1	03/15/16 11:03	03/16/16 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.9	12.7	1	03/15/16 11:03	03/16/16 19:09	75-35-4	
cis-1,2-Dichloroethene	**1050**	ug/kg	55.9	19.9	1	03/15/16 11:03	03/16/16 19:09	156-59-2	
trans-1,2-Dichloroethene	**77.3**	ug/kg	55.9	9.2	1	03/15/16 11:03	03/16/16 19:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	559	52.5	1	03/15/16 11:03	03/16/16 19:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.9	11.4	1	03/15/16 11:03	03/16/16 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.9	8.8	1	03/15/16 11:03	03/16/16 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	224	22.6	1	03/15/16 11:03	03/16/16 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.9	11.2	1	03/15/16 11:03	03/16/16 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.9	5.8	1	03/15/16 11:03	03/16/16 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	224	21.7	1	03/15/16 11:03	03/16/16 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	224	18.2	1	03/15/16 11:03	03/16/16 19:09	60-29-7	
Ethylbenzene	ND	ug/kg	55.9	9.0	1	03/15/16 11:03	03/16/16 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	279	23.8	1	03/15/16 11:03	03/16/16 19:09	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-58 **Lab ID: 10341254019** Collected: 03/11/16 13:05 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	55.9	10.2	1	03/15/16 11:03	03/16/16 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.9	9.8	1	03/15/16 11:03	03/16/16 19:09	99-87-6	
Methylene Chloride	ND	ug/kg	224	16.7	1	03/15/16 11:03	03/16/16 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	279	71.1	1	03/15/16 11:03	03/16/16 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.9	15.1	1	03/15/16 11:03	03/16/16 19:09	1634-04-4	
Naphthalene	ND	ug/kg	224	80.6	1	03/15/16 11:03	03/16/16 19:09	91-20-3	
n-Propylbenzene	ND	ug/kg	55.9	14.1	1	03/15/16 11:03	03/16/16 19:09	103-65-1	
Styrene	ND	ug/kg	55.9	8.9	1	03/15/16 11:03	03/16/16 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.9	10.7	1	03/15/16 11:03	03/16/16 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.9	10.7	1	03/15/16 11:03	03/16/16 19:09	79-34-5	
Tetrachloroethene	**992**	ug/kg	55.9	11.5	1	03/15/16 11:03	03/16/16 19:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2240	88.4	1	03/15/16 11:03	03/16/16 19:09	109-99-9	
Toluene	ND	ug/kg	55.9	10.7	1	03/15/16 11:03	03/16/16 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.9	21.7	1	03/15/16 11:03	03/16/16 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	224	10.2	1	03/15/16 11:03	03/16/16 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.9	10.9	1	03/15/16 11:03	03/16/16 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.9	15.3	1	03/15/16 11:03	03/16/16 19:09	79-00-5	
Trichloroethene	**226**	ug/kg	55.9	13.5	1	03/15/16 11:03	03/16/16 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	224	38.7	1	03/15/16 11:03	03/16/16 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	224	15.4	1	03/15/16 11:03	03/16/16 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	224	13.2	1	03/15/16 11:03	03/16/16 19:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.9	11.2	1	03/15/16 11:03	03/16/16 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.9	12.5	1	03/15/16 11:03	03/16/16 19:09	108-67-8	
Vinyl chloride	ND	ug/kg	55.9	10.0	1	03/15/16 11:03	03/16/16 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	168	33.4	1	03/15/16 11:03	03/16/16 19:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	75-129		1	03/15/16 11:03	03/16/16 19:09	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 19:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	03/15/16 11:03	03/16/16 19:09	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-65 **Lab ID: 10341254020** Collected: 03/11/16 13:10 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.2**	%	0.10	0.10	1		03/15/16 11:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	264	1	03/15/16 11:03	03/16/16 19:28	67-64-1	
Allyl chloride	ND	ug/kg	235	14.4	1	03/15/16 11:03	03/16/16 19:28	107-05-1	
Benzene	ND	ug/kg	23.5	12.5	1	03/15/16 11:03	03/16/16 19:28	71-43-2	
Bromobenzene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 19:28	108-86-1	
Bromochloromethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 19:28	74-97-5	
Bromodichloromethane	ND	ug/kg	58.8	10.5	1	03/15/16 11:03	03/16/16 19:28	75-27-4	
Bromoform	ND	ug/kg	235	14.0	1	03/15/16 11:03	03/16/16 19:28	75-25-2	
Bromomethane	ND	ug/kg	588	103	1	03/15/16 11:03	03/16/16 19:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	97.7	1	03/15/16 11:03	03/16/16 19:28	78-93-3	
n-Butylbenzene	ND	ug/kg	58.8	11.1	1	03/15/16 11:03	03/16/16 19:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.8	12.0	1	03/15/16 11:03	03/16/16 19:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.8	15.8	1	03/15/16 11:03	03/16/16 19:28	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 19:28	56-23-5	
Chlorobenzene	ND	ug/kg	58.8	9.5	1	03/15/16 11:03	03/16/16 19:28	108-90-7	
Chloroethane	ND	ug/kg	588	28.1	1	03/15/16 11:03	03/16/16 19:28	75-00-3	
Chloroform	ND	ug/kg	58.8	9.8	1	03/15/16 11:03	03/16/16 19:28	67-66-3	
Chloromethane	ND	ug/kg	235	11.9	1	03/15/16 11:03	03/16/16 19:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.8	12.1	1	03/15/16 11:03	03/16/16 19:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.8	11.0	1	03/15/16 11:03	03/16/16 19:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	588	45.5	1	03/15/16 11:03	03/16/16 19:28	96-12-8	
Dibromochloromethane	ND	ug/kg	58.8	9.1	1	03/15/16 11:03	03/16/16 19:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.8	10	1	03/15/16 11:03	03/16/16 19:28	106-93-4	
Dibromomethane	ND	ug/kg	58.8	13.9	1	03/15/16 11:03	03/16/16 19:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 19:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.8	14.4	1	03/15/16 11:03	03/16/16 19:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.8	12.5	1	03/15/16 11:03	03/16/16 19:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	235	14.5	1	03/15/16 11:03	03/16/16 19:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.8	11.2	1	03/15/16 11:03	03/16/16 19:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.8	13.2	1	03/15/16 11:03	03/16/16 19:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.8	13.4	1	03/15/16 11:03	03/16/16 19:28	75-35-4	
cis-1,2-Dichloroethene	**85.3**	ug/kg	58.8	20.9	1	03/15/16 11:03	03/16/16 19:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.8	9.7	1	03/15/16 11:03	03/16/16 19:28	156-60-5	
Dichlorofluoromethane	ND	ug/kg	588	55.3	1	03/15/16 11:03	03/16/16 19:28	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.8	12.0	1	03/15/16 11:03	03/16/16 19:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.8	9.2	1	03/15/16 11:03	03/16/16 19:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	235	23.8	1	03/15/16 11:03	03/16/16 19:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.8	11.8	1	03/15/16 11:03	03/16/16 19:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.8	6.1	1	03/15/16 11:03	03/16/16 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	235	22.8	1	03/15/16 11:03	03/16/16 19:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	235	19.2	1	03/15/16 11:03	03/16/16 19:28	60-29-7	
Ethylbenzene	ND	ug/kg	58.8	9.4	1	03/15/16 11:03	03/16/16 19:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	25.1	1	03/15/16 11:03	03/16/16 19:28	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-65 **Lab ID: 10341254020** Collected: 03/11/16 13:10 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.8	10.7	1	03/15/16 11:03	03/16/16 19:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.8	10.3	1	03/15/16 11:03	03/16/16 19:28	99-87-6	
Methylene Chloride	ND	ug/kg	235	17.5	1	03/15/16 11:03	03/16/16 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	74.8	1	03/15/16 11:03	03/16/16 19:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.8	15.9	1	03/15/16 11:03	03/16/16 19:28	1634-04-4	
Naphthalene	ND	ug/kg	235	84.8	1	03/15/16 11:03	03/16/16 19:28	91-20-3	
n-Propylbenzene	ND	ug/kg	58.8	14.8	1	03/15/16 11:03	03/16/16 19:28	103-65-1	
Styrene	ND	ug/kg	58.8	9.3	1	03/15/16 11:03	03/16/16 19:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 19:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 19:28	79-34-5	
Tetrachloroethene	**62.2**	ug/kg	58.8	12.1	1	03/15/16 11:03	03/16/16 19:28	127-18-4	
Tetrahydrofuran	ND	ug/kg	2350	93.1	1	03/15/16 11:03	03/16/16 19:28	109-99-9	
Toluene	ND	ug/kg	58.8	11.3	1	03/15/16 11:03	03/16/16 19:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.8	22.8	1	03/15/16 11:03	03/16/16 19:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	235	10.7	1	03/15/16 11:03	03/16/16 19:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.8	11.4	1	03/15/16 11:03	03/16/16 19:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.8	16.1	1	03/15/16 11:03	03/16/16 19:28	79-00-5	
Trichloroethene	ND	ug/kg	58.8	14.2	1	03/15/16 11:03	03/16/16 19:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	235	40.7	1	03/15/16 11:03	03/16/16 19:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	235	16.2	1	03/15/16 11:03	03/16/16 19:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	235	13.9	1	03/15/16 11:03	03/16/16 19:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.8	11.8	1	03/15/16 11:03	03/16/16 19:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.8	13.2	1	03/15/16 11:03	03/16/16 19:28	108-67-8	
Vinyl chloride	ND	ug/kg	58.8	10.6	1	03/15/16 11:03	03/16/16 19:28	75-01-4	
Xylene (Total)	ND	ug/kg	177	35.2	1	03/15/16 11:03	03/16/16 19:28	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/15/16 11:03	03/16/16 19:28	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/15/16 11:03	03/16/16 19:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1	03/15/16 11:03	03/16/16 19:28	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-84 **Lab ID: 10341254021** Collected: 03/11/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.5**	%	0.10	0.10	1		03/15/16 11:08		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1210	271	1	03/21/16 08:49	03/21/16 16:12	67-64-1	
Allyl chloride	ND	ug/kg	242	14.8	1	03/21/16 08:49	03/21/16 16:12	107-05-1	
Benzene	ND	ug/kg	24.2	8.5	1	03/21/16 08:49	03/21/16 16:12	71-43-2	
Bromobenzene	ND	ug/kg	60.5	14.7	1	03/21/16 08:49	03/21/16 16:12	108-86-1	
Bromochloromethane	ND	ug/kg	60.5	11.6	1	03/21/16 08:49	03/21/16 16:12	74-97-5	
Bromodichloromethane	ND	ug/kg	242	10.8	1	03/21/16 08:49	03/21/16 16:12	75-27-4	
Bromoform	ND	ug/kg	605	14.4	1	03/21/16 08:49	03/21/16 16:12	75-25-2	
Bromomethane	ND	ug/kg	605	106	1	03/21/16 08:49	03/21/16 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	303	100	1	03/21/16 08:49	03/21/16 16:12	78-93-3	
n-Butylbenzene	ND	ug/kg	60.5	11.4	1	03/21/16 08:49	03/21/16 16:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.5	12.4	1	03/21/16 08:49	03/21/16 16:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.5	16.2	1	03/21/16 08:49	03/21/16 16:12	98-06-6	
Carbon tetrachloride	ND	ug/kg	242	14.7	1	03/21/16 08:49	03/21/16 16:12	56-23-5	
Chlorobenzene	ND	ug/kg	60.5	9.8	1	03/21/16 08:49	03/21/16 16:12	108-90-7	
Chloroethane	ND	ug/kg	605	28.9	1	03/21/16 08:49	03/21/16 16:12	75-00-3	
Chloroform	ND	ug/kg	60.5	10.1	1	03/21/16 08:49	03/21/16 16:12	67-66-3	
Chloromethane	ND	ug/kg	242	12.2	1	03/21/16 08:49	03/21/16 16:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.5	12.5	1	03/21/16 08:49	03/21/16 16:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.5	11.4	1	03/21/16 08:49	03/21/16 16:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	605	46.9	1	03/21/16 08:49	03/21/16 16:12	96-12-8	
Dibromochloromethane	ND	ug/kg	242	9.4	1	03/21/16 08:49	03/21/16 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.5	9.7	1	03/21/16 08:49	03/21/16 16:12	106-93-4	
Dibromomethane	ND	ug/kg	60.5	14.3	1	03/21/16 08:49	03/21/16 16:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.5	14.7	1	03/21/16 08:49	03/21/16 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.5	14.8	1	03/21/16 08:49	03/21/16 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.5	12.8	1	03/21/16 08:49	03/21/16 16:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	242	14.9	1	03/21/16 08:49	03/21/16 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.5	11.6	1	03/21/16 08:49	03/21/16 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.5	13.6	1	03/21/16 08:49	03/21/16 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.5	13.8	1	03/21/16 08:49	03/21/16 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.5	21.6	1	03/21/16 08:49	03/21/16 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.5	9.9	1	03/21/16 08:49	03/21/16 16:12	156-60-5	
Dichlorofluoromethane	ND	ug/kg	605	56.9	1	03/21/16 08:49	03/21/16 16:12	75-43-4	L3
1,2-Dichloropropane	ND	ug/kg	60.5	12.4	1	03/21/16 08:49	03/21/16 16:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.5	9.5	1	03/21/16 08:49	03/21/16 16:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	242	24.5	1	03/21/16 08:49	03/21/16 16:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.5	12.1	1	03/21/16 08:49	03/21/16 16:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	242	6.3	1	03/21/16 08:49	03/21/16 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	605	23.5	1	03/21/16 08:49	03/21/16 16:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	242	19.7	1	03/21/16 08:49	03/21/16 16:12	60-29-7	L3
Ethylbenzene	ND	ug/kg	60.5	9.1	1	03/21/16 08:49	03/21/16 16:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	303	25.8	1	03/21/16 08:49	03/21/16 16:12	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Sample: B25-S-84 **Lab ID: 10341254021** Collected: 03/11/16 13:15 Received: 03/11/16 14:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.5	11.0	1	03/21/16 08:49	03/21/16 16:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.5	10.6	1	03/21/16 08:49	03/21/16 16:12	99-87-6	
Methylene Chloride	ND	ug/kg	242	18.0	1	03/21/16 08:49	03/21/16 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	303	77.0	1	03/21/16 08:49	03/21/16 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.5	11.3	1	03/21/16 08:49	03/21/16 16:12	1634-04-4	
Naphthalene	ND	ug/kg	242	87.3	1	03/21/16 08:49	03/21/16 16:12	91-20-3	
n-Propylbenzene	ND	ug/kg	60.5	13.0	1	03/21/16 08:49	03/21/16 16:12	103-65-1	
Styrene	ND	ug/kg	60.5	9.6	1	03/21/16 08:49	03/21/16 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	242	11.6	1	03/21/16 08:49	03/21/16 16:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.5	11.6	1	03/21/16 08:49	03/21/16 16:12	79-34-5	
Tetrachloroethene	ND	ug/kg	60.5	12.5	1	03/21/16 08:49	03/21/16 16:12	127-18-4	
Tetrahydrofuran	ND	ug/kg	2420	95.8	1	03/21/16 08:49	03/21/16 16:12	109-99-9	
Toluene	ND	ug/kg	60.5	11.6	1	03/21/16 08:49	03/21/16 16:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.5	23.5	1	03/21/16 08:49	03/21/16 16:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.5	11.0	1	03/21/16 08:49	03/21/16 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.5	11.8	1	03/21/16 08:49	03/21/16 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.5	16.6	1	03/21/16 08:49	03/21/16 16:12	79-00-5	
Trichloroethene	ND	ug/kg	60.5	14.7	1	03/21/16 08:49	03/21/16 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	242	41.9	1	03/21/16 08:49	03/21/16 16:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	242	16.7	1	03/21/16 08:49	03/21/16 16:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	242	14.3	1	03/21/16 08:49	03/21/16 16:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.5	12.1	1	03/21/16 08:49	03/21/16 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.5	11.7	1	03/21/16 08:49	03/21/16 16:12	108-67-8	
Vinyl chloride	ND	ug/kg	24.2	10.9	1	03/21/16 08:49	03/21/16 16:12	75-01-4	
Xylene (Total)	ND	ug/kg	182	36.2	1	03/21/16 08:49	03/21/16 16:12	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-129		1	03/21/16 08:49	03/21/16 16:12	17060-07-0	
Toluene-d8 (S)	103	%.	75-125		1	03/21/16 08:49	03/21/16 16:12	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/21/16 08:49	03/21/16 16:12	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MPRP/61994 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10341254001, 10341254002, 10341254003, 10341254004, 10341254005

SAMPLE DUPLICATE: 2209699

Parameter	Units	10341254005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.4	13.2	2	30	

SAMPLE DUPLICATE: 2209766

Parameter	Units	10341322005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	13.5	2	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MPRP/61995 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10341254006, 10341254007, 10341254008, 10341254009, 10341254010, 10341254011, 10341254013, 10341254014, 10341254015, 10341254016, 10341254017, 10341254018, 10341254019, 10341254020, 10341254021

SAMPLE DUPLICATE: 2209718

Parameter	Units	10341389001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.8	7.6	2	30	

SAMPLE DUPLICATE: 2209742

Parameter	Units	10341325002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	86.2	86.3	0	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MSV/34882 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10341254001, 10341254002, 10341254003, 10341254004, 10341254012

METHOD BLANK: 2209218 Matrix: Solid
Associated Lab Samples: 10341254001, 10341254002, 10341254003, 10341254004, 10341254012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/14/16 14:29	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/14/16 14:29	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/14/16 14:29	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/14/16 14:29	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/14/16 14:29	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/14/16 14:29	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/14/16 14:29	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/14/16 14:29	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/14/16 14:29	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/14/16 14:29	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/14/16 14:29	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/14/16 14:29	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/14/16 14:29	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/14/16 14:29	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/14/16 14:29	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/14/16 14:29	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/14/16 14:29	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/14/16 14:29	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/14/16 14:29	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/14/16 14:29	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/14/16 14:29	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/14/16 14:29	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/14/16 14:29	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/14/16 14:29	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/14/16 14:29	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/14/16 14:29	
Acetone	ug/kg	ND	1000	224	03/14/16 14:29	
Allyl chloride	ug/kg	ND	200	12.2	03/14/16 14:29	
Benzene	ug/kg	ND	20.0	7.0	03/14/16 14:29	
Bromobenzene	ug/kg	ND	50.0	12.1	03/14/16 14:29	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/14/16 14:29	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/14/16 14:29	
Bromoform	ug/kg	ND	500	11.9	03/14/16 14:29	
Bromomethane	ug/kg	ND	500	87.8	03/14/16 14:29	
Carbon tetrachloride	ug/kg	ND	200	12.1	03/14/16 14:29	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/14/16 14:29	
Chloroethane	ug/kg	ND	500	23.9	03/14/16 14:29	
Chloroform	ug/kg	ND	50.0	8.4	03/14/16 14:29	
Chloromethane	ug/kg	ND	200	10.1	03/14/16 14:29	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/14/16 14:29	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/14/16 14:29	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

METHOD BLANK: 2209218 Matrix: Solid
Associated Lab Samples: 10341254001, 10341254002, 10341254003, 10341254004, 10341254012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/14/16 14:29	
Dibromomethane	ug/kg	ND	50.0	11.8	03/14/16 14:29	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/14/16 14:29	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/14/16 14:29	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/14/16 14:29	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/14/16 14:29	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/14/16 14:29	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/14/16 14:29	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/14/16 14:29	
Methylene Chloride	ug/kg	ND	200	14.9	03/14/16 14:29	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/14/16 14:29	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/14/16 14:29	
Naphthalene	ug/kg	ND	200	72.1	03/14/16 14:29	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/14/16 14:29	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/14/16 14:29	
Styrene	ug/kg	ND	50.0	7.9	03/14/16 14:29	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/14/16 14:29	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/14/16 14:29	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/14/16 14:29	
Toluene	ug/kg	ND	50.0	9.6	03/14/16 14:29	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/14/16 14:29	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	19.4	03/14/16 14:29	
Trichloroethene	ug/kg	ND	50.0	12.1	03/14/16 14:29	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/14/16 14:29	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/14/16 14:29	
Xylene (Total)	ug/kg	ND	150	29.9	03/14/16 14:29	
1,2-Dichloroethane-d4 (S)	%.	106	75-129		03/14/16 14:29	
4-Bromofluorobenzene (S)	%.	88	75-125		03/14/16 14:29	
Toluene-d8 (S)	%.	91	75-125		03/14/16 14:29	

LABORATORY CONTROL SAMPLE: 2209219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	722	72	71-127	
1,1,1-Trichloroethane	ug/kg	1000	818	82	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	648	65	50-138	
1,1,2-Trichloroethane	ug/kg	1000	772	77	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1010	101	53-144	
1,1-Dichloroethane	ug/kg	1000	730	73	61-134	
1,1-Dichloroethene	ug/kg	1000	876	88	57-135	
1,1-Dichloropropene	ug/kg	1000	727	73	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	719	72	32-150	
1,2,3-Trichloropropane	ug/kg	1000	732	73	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	708	71	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	747	75	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1270	51	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	721	72	69-130	
1,2-Dichlorobenzene	ug/kg	1000	762	76	72-125	
1,2-Dichloroethane	ug/kg	1000	809	81	62-125	
1,2-Dichloropropane	ug/kg	1000	747	75	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	770	77	71-129	
1,3-Dichlorobenzene	ug/kg	1000	745	74	72-126	
1,3-Dichloropropane	ug/kg	1000	721	72	70-125	
1,4-Dichlorobenzene	ug/kg	1000	763	76	70-126	
2,2-Dichloropropane	ug/kg	1000	676	68	48-134	
2-Butanone (MEK)	ug/kg	5000	3100	62	38-149	
2-Chlorotoluene	ug/kg	1000	740	74	71-129	
4-Chlorotoluene	ug/kg	1000	724	72	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3450	69	52-145	
Acetone	ug/kg	5000	4090	82	65-142	
Allyl chloride	ug/kg	1000	829	83	54-125	
Benzene	ug/kg	1000	681	68	64-125	
Bromobenzene	ug/kg	1000	740	74	70-125	
Bromochloromethane	ug/kg	1000	753	75	68-125	
Bromodichloromethane	ug/kg	1000	645	64	67-125	L0
Bromoform	ug/kg	1000	607	61	56-127	
Bromomethane	ug/kg	1000	973	97	34-137	
Carbon tetrachloride	ug/kg	1000	637	64	58-138	
Chlorobenzene	ug/kg	1000	808	81	72-125	
Chloroethane	ug/kg	1000	866	87	39-148	
Chloroform	ug/kg	1000	706	71	67-125	
Chloromethane	ug/kg	1000	716	72	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	684	68	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	618	62	62-127	
Dibromochloromethane	ug/kg	1000	642	64	67-125	L0
Dibromomethane	ug/kg	1000	778	78	63-129	
Dichlorodifluoromethane	ug/kg	1000	577	58	34-139	
Dichlorofluoromethane	ug/kg	1000	1240	124	36-144	CH,SS
Diethyl ether (Ethyl ether)	ug/kg	1000	1030	103	51-125	
Ethylbenzene	ug/kg	1000	780	78	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	760	76	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	817	82	75-127	
Methyl-tert-butyl ether	ug/kg	1000	664	66	61-125	
Methylene Chloride	ug/kg	1000	783	78	60-126	
n-Butylbenzene	ug/kg	1000	762	76	67-125	
n-Propylbenzene	ug/kg	1000	737	74	72-133	
Naphthalene	ug/kg	1000	650	65	35-147	
p-Isopropyltoluene	ug/kg	1000	789	79	69-127	
sec-Butylbenzene	ug/kg	1000	782	78	70-127	
Styrene	ug/kg	1000	734	73	73-125	
tert-Butylbenzene	ug/kg	1000	760	76	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	896	90	66-135	
Tetrahydrofuran	ug/kg	10000	7190	72	66-145	
Toluene	ug/kg	1000	719	72	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	645	64	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	693	69	67-125	
Trichloroethene	ug/kg	1000	830	83	62-141	
Trichlorofluoromethane	ug/kg	1000	909	91	38-150	CH
Vinyl chloride	ug/kg	1000	804	80	57-131	
Xylene (Total)	ug/kg	3000	2390	80	73-128	
1,2-Dichloroethane-d4 (S)	%.			103	75-129	
4-Bromofluorobenzene (S)	%.			88	75-125	
Toluene-d8 (S)	%.			93	75-125	

MATRIX SPIKE SAMPLE: 2209324

Parameter	Units	10341255001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1280	1340	105	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1280	1460	115	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1280	1150	90	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1280	1340	105	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1280	1640	129	41-150	
1,1-Dichloroethane	ug/kg	ND	1280	1270	100	53-131	
1,1-Dichloroethene	ug/kg	ND	1280	1520	119	41-133	
1,1-Dichloropropene	ug/kg	ND	1280	1270	100	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1280	1340	105	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1280	1200	95	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1280	1320	104	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1280	1300	102	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3190	2330	73	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1280	1280	100	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1280	1340	105	59-136	
1,2-Dichloroethane	ug/kg	ND	1280	1400	110	52-133	
1,2-Dichloropropane	ug/kg	ND	1280	1290	101	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1280	1320	104	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1280	1300	102	60-137	
1,3-Dichloropropane	ug/kg	ND	1280	1260	99	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1280	1330	104	51-132	
2,2-Dichloropropane	ug/kg	ND	1280	1270	100	50-134	
2-Butanone (MEK)	ug/kg	ND	6370	5210	82	46-125	
2-Chlorotoluene	ug/kg	ND	1280	1240	98	60-141	
4-Chlorotoluene	ug/kg	ND	1280	1250	98	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6370	5910	93	47-146	
Acetone	ug/kg	ND	6370	7470	117	45-148	
Allyl chloride	ug/kg	ND	1280	1480	116	50-135	
Benzene	ug/kg	ND	1280	1180	93	41-134	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

MATRIX SPIKE SAMPLE: 2209324

Parameter	Units	10341255001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1280	1280	100	59-134	
Bromochloromethane	ug/kg	ND	1280	1330	105	56-127	
Bromodichloromethane	ug/kg	ND	1280	1190	94	55-136	
Bromoform	ug/kg	ND	1280	1040	81	51-139	
Bromomethane	ug/kg	ND	1280	1490	117	35-148	
Carbon tetrachloride	ug/kg	ND	1280	1130	89	50-140	
Chlorobenzene	ug/kg	ND	1280	1370	107	59-133	
Chloroethane	ug/kg	ND	1280	1440	113	30-150	
Chloroform	ug/kg	ND	1280	1220	96	58-128	
Chloromethane	ug/kg	ND	1280	1240	97	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1280	1150	90	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1280	1170	92	57-133	
Dibromochloromethane	ug/kg	ND	1280	1120	88	54-141	
Dibromomethane	ug/kg	ND	1280	1370	108	53-134	
Dichlorodifluoromethane	ug/kg	ND	1280	810	64	30-125	
Dichlorofluoromethane	ug/kg	ND	1280	2030	160	30-150	CH,M1,SS
Diethyl ether (Ethyl ether)	ug/kg	ND	1280	1740	137	46-137	
Ethylbenzene	ug/kg	ND	1280	1320	103	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1280	1420	111	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1280	1440	113	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1280	1160	91	53-133	
Methylene Chloride	ug/kg	ND	1280	1340	104	42-135	
n-Butylbenzene	ug/kg	ND	1280	1380	108	52-140	
n-Propylbenzene	ug/kg	ND	1280	1260	99	57-142	
Naphthalene	ug/kg	ND	1280	1240	97	41-150	
p-Isopropyltoluene	ug/kg	ND	1280	1380	108	54-139	
sec-Butylbenzene	ug/kg	ND	1280	1350	106	30-150	
Styrene	ug/kg	ND	1280	1290	101	53-137	
tert-Butylbenzene	ug/kg	ND	1280	1340	105	59-138	
Tetrachloroethene	ug/kg	ND	1280	1560	122	53-138	
Tetrahydrofuran	ug/kg	ND	12800	13200	104	50-145	
Toluene	ug/kg	ND	1280	1260	99	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1280	1130	89	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1280	1260	99	59-139	
Trichloroethene	ug/kg	ND	1280	1470	116	52-143	
Trichlorofluoromethane	ug/kg	ND	1280	1550	122	30-150	CH
Vinyl chloride	ug/kg	ND	1280	1300	102	36-127	
Xylene (Total)	ug/kg	ND	3820	4160	109	56-137	
1,2-Dichloroethane-d4 (S)	%.				97	75-129	
4-Bromofluorobenzene (S)	%.				89	75-125	
Toluene-d8 (S)	%.				93	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209325

Parameter	Units	10341255005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209325

Parameter	Units	10341255005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	22.3J		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	121	120	4		
4-Bromofluorobenzene (S)	%.	90	90	3		
Toluene-d8 (S)	%.	100	100	3		

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MSV/34884 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10341254005, 10341254006, 10341254007, 10341254008, 10341254009

METHOD BLANK: 2209433 Matrix: Solid
Associated Lab Samples: 10341254005, 10341254006, 10341254007, 10341254008, 10341254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/15/16 13:18	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/15/16 13:18	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/15/16 13:18	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/15/16 13:18	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/15/16 13:18	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/15/16 13:18	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/15/16 13:18	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/15/16 13:18	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/15/16 13:18	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/15/16 13:18	
1,2,4-Trichlorobenzene	ug/kg	ND	200	9.1	03/15/16 13:18	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/15/16 13:18	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/15/16 13:18	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/15/16 13:18	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/15/16 13:18	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/15/16 13:18	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/15/16 13:18	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/15/16 13:18	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/15/16 13:18	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/15/16 13:18	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/15/16 13:18	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/15/16 13:18	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/15/16 13:18	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/15/16 13:18	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/15/16 13:18	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/15/16 13:18	
Acetone	ug/kg	ND	1000	224	03/15/16 13:18	
Allyl chloride	ug/kg	ND	200	12.2	03/15/16 13:18	
Benzene	ug/kg	ND	20.0	10.6	03/15/16 13:18	
Bromobenzene	ug/kg	ND	50.0	12.1	03/15/16 13:18	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/15/16 13:18	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/15/16 13:18	
Bromoform	ug/kg	ND	200	11.9	03/15/16 13:18	
Bromomethane	ug/kg	ND	500	87.8	03/15/16 13:18	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/15/16 13:18	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/15/16 13:18	
Chloroethane	ug/kg	ND	500	23.9	03/15/16 13:18	
Chloroform	ug/kg	ND	50.0	8.4	03/15/16 13:18	
Chloromethane	ug/kg	ND	200	10.1	03/15/16 13:18	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/15/16 13:18	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/15/16 13:18	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

METHOD BLANK: 2209433 Matrix: Solid
Associated Lab Samples: 10341254005, 10341254006, 10341254007, 10341254008, 10341254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/15/16 13:18	
Dibromomethane	ug/kg	ND	50.0	11.8	03/15/16 13:18	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/15/16 13:18	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/15/16 13:18	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/15/16 13:18	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/15/16 13:18	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/15/16 13:18	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/15/16 13:18	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/15/16 13:18	
Methylene Chloride	ug/kg	ND	200	14.9	03/15/16 13:18	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/15/16 13:18	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/15/16 13:18	
Naphthalene	ug/kg	ND	200	72.1	03/15/16 13:18	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/15/16 13:18	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/15/16 13:18	
Styrene	ug/kg	ND	50.0	7.9	03/15/16 13:18	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/15/16 13:18	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/15/16 13:18	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/15/16 13:18	
Toluene	ug/kg	ND	50.0	9.6	03/15/16 13:18	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/15/16 13:18	
trans-1,3-Dichloropropene	ug/kg	ND	200	19.4	03/15/16 13:18	
Trichloroethene	ug/kg	ND	50.0	12.1	03/15/16 13:18	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/15/16 13:18	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/15/16 13:18	
Xylene (Total)	ug/kg	ND	150	29.9	03/15/16 13:18	
1,2-Dichloroethane-d4 (S)	%.	98	75-129		03/15/16 13:18	
4-Bromofluorobenzene (S)	%.	103	75-125		03/15/16 13:18	
Toluene-d8 (S)	%.	98	75-125		03/15/16 13:18	

LABORATORY CONTROL SAMPLE: 2209434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	913	91	71-127	
1,1,1-Trichloroethane	ug/kg	1000	935	94	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1010	101	50-138	
1,1,2-Trichloroethane	ug/kg	1000	964	96	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	939	94	53-144	
1,1-Dichloroethane	ug/kg	1000	917	92	61-134	
1,1-Dichloroethene	ug/kg	1000	973	97	57-135	
1,1-Dichloropropene	ug/kg	1000	1050	105	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	967	97	32-150	
1,2,3-Trichloropropane	ug/kg	1000	991	99	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	931	93	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	986	99	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2610	104	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	924	92	69-130	
1,2-Dichlorobenzene	ug/kg	1000	908	91	72-125	
1,2-Dichloroethane	ug/kg	1000	898	90	62-125	
1,2-Dichloropropane	ug/kg	1000	1030	103	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	941	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	955	96	72-126	
1,3-Dichloropropane	ug/kg	1000	949	95	70-125	
1,4-Dichlorobenzene	ug/kg	1000	912	91	70-126	
2,2-Dichloropropane	ug/kg	1000	949	95	48-134	
2-Butanone (MEK)	ug/kg	5000	4780	96	38-149	
2-Chlorotoluene	ug/kg	1000	936	94	71-129	
4-Chlorotoluene	ug/kg	1000	956	96	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4850	97	52-145	
Acetone	ug/kg	5000	5250	105	65-142	
Allyl chloride	ug/kg	1000	897	90	54-125	
Benzene	ug/kg	1000	988	99	64-125	
Bromobenzene	ug/kg	1000	959	96	70-125	
Bromochloromethane	ug/kg	1000	1090	109	68-125	
Bromodichloromethane	ug/kg	1000	973	97	67-125	
Bromoform	ug/kg	1000	921	92	56-127	
Bromomethane	ug/kg	1000	927	93	34-137	
Carbon tetrachloride	ug/kg	1000	992	99	58-138	
Chlorobenzene	ug/kg	1000	953	95	72-125	
Chloroethane	ug/kg	1000	795	80	39-148	
Chloroform	ug/kg	1000	933	93	67-125	
Chloromethane	ug/kg	1000	823	82	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	993	99	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	1060	106	62-127	
Dibromochloromethane	ug/kg	1000	962	96	67-125	
Dibromomethane	ug/kg	1000	987	99	63-129	
Dichlorodifluoromethane	ug/kg	1000	723	72	34-139	
Dichlorofluoromethane	ug/kg	1000	884	88	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	886	89	51-125	
Ethylbenzene	ug/kg	1000	914	91	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	928	93	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	947	95	75-127	
Methyl-tert-butyl ether	ug/kg	1000	1000	100	61-125	
Methylene Chloride	ug/kg	1000	888	89	60-126	
n-Butylbenzene	ug/kg	1000	989	99	67-125	
n-Propylbenzene	ug/kg	1000	907	91	72-133	
Naphthalene	ug/kg	1000	1060	106	35-147	
p-Isopropyltoluene	ug/kg	1000	947	95	69-127	
sec-Butylbenzene	ug/kg	1000	950	95	70-127	
Styrene	ug/kg	1000	1020	102	73-125	
tert-Butylbenzene	ug/kg	1000	953	95	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	924	92	66-135	
Tetrahydrofuran	ug/kg	10000	13100	131	66-145	
Toluene	ug/kg	1000	963	96	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	999	100	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	918	92	67-125	
Trichloroethene	ug/kg	1000	945	94	62-141	
Trichlorofluoromethane	ug/kg	1000	834	83	38-150	
Vinyl chloride	ug/kg	1000	948	95	57-131	
Xylene (Total)	ug/kg	3000	2830	94	73-128	
1,2-Dichloroethane-d4 (S)	%.			97	75-129	
4-Bromofluorobenzene (S)	%.			104	75-125	
Toluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE SAMPLE: 2209435

Parameter	Units	10341255006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1180	1080	91	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1180	1070	90	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1180	1120	95	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1180	1010	86	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1180	1020	86	41-150	
1,1-Dichloroethane	ug/kg	ND	1180	1070	90	53-131	
1,1-Dichloroethene	ug/kg	ND	1180	1080	91	41-133	
1,1-Dichloropropene	ug/kg	ND	1180	1230	104	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1180	1110	94	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1180	1130	96	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1180	1070	91	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1180	1150	97	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2960	2900	98	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1180	1060	90	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1180	1050	88	59-136	
1,2-Dichloroethane	ug/kg	ND	1180	1020	86	52-133	
1,2-Dichloropropane	ug/kg	ND	1180	1130	96	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1180	1130	95	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1180	1080	91	60-137	
1,3-Dichloropropane	ug/kg	ND	1180	1070	90	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1180	1040	88	51-132	
2,2-Dichloropropane	ug/kg	ND	1180	1120	94	50-134	
2-Butanone (MEK)	ug/kg	ND	5910	5170	87	46-125	
2-Chlorotoluene	ug/kg	ND	1180	1110	94	60-141	
4-Chlorotoluene	ug/kg	ND	1180	1100	93	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5910	5140	87	47-146	
Acetone	ug/kg	ND	5910	5790	98	45-148	
Allyl chloride	ug/kg	ND	1180	994	84	50-135	
Benzene	ug/kg	ND	1180	1120	94	41-134	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

MATRIX SPIKE SAMPLE: 2209435

Parameter	Units	10341255006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1180	1140	97	59-134	
Bromochloromethane	ug/kg	ND	1180	1210	102	56-127	
Bromodichloromethane	ug/kg	ND	1180	1080	91	55-136	
Bromoform	ug/kg	ND	1180	981	83	51-139	
Bromomethane	ug/kg	ND	1180	990	84	35-148	
Carbon tetrachloride	ug/kg	ND	1180	1150	97	50-140	
Chlorobenzene	ug/kg	ND	1180	1050	89	59-133	
Chloroethane	ug/kg	ND	1180	851	72	30-150	
Chloroform	ug/kg	ND	1180	1080	89	58-128	
Chloromethane	ug/kg	ND	1180	868	73	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1180	1190	100	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1180	1130	96	57-133	
Dibromochloromethane	ug/kg	ND	1180	1100	93	54-141	
Dibromomethane	ug/kg	ND	1180	1100	93	53-134	
Dichlorodifluoromethane	ug/kg	ND	1180	578	49	30-125	
Dichlorofluoromethane	ug/kg	ND	1180	915	77	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1180	973	82	46-137	
Ethylbenzene	ug/kg	ND	1180	1050	88	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1180	1170	99	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1180	1110	94	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1180	1140	96	53-133	
Methylene Chloride	ug/kg	ND	1180	1070	90	42-135	
n-Butylbenzene	ug/kg	ND	1180	1170	99	52-140	
n-Propylbenzene	ug/kg	ND	1180	1100	93	57-142	
Naphthalene	ug/kg	ND	1180	1150	97	41-150	
p-Isopropyltoluene	ug/kg	ND	1180	1140	96	54-139	
sec-Butylbenzene	ug/kg	ND	1180	1150	97	30-150	
Styrene	ug/kg	ND	1180	1130	95	53-137	
tert-Butylbenzene	ug/kg	ND	1180	1150	97	59-138	
Tetrachloroethene	ug/kg	ND	1180	1000	85	53-138	
Tetrahydrofuran	ug/kg	ND	11800	13100	111	50-145	
Toluene	ug/kg	ND	1180	1000	85	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1180	1120	95	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1180	983	83	59-139	
Trichloroethene	ug/kg	ND	1180	1080	91	52-143	
Trichlorofluoromethane	ug/kg	ND	1180	918	78	30-150	
Vinyl chloride	ug/kg	ND	1180	1030	87	36-127	
Xylene (Total)	ug/kg	ND	3550	3240	91	56-137	
1,2-Dichloroethane-d4 (S)	%.				98	75-129	
4-Bromofluorobenzene (S)	%.				105	75-125	
Toluene-d8 (S)	%.				98	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209436

Parameter	Units	10341255007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	17.9J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209436

Parameter	Units	10341255007 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	102	102	4		
4-Bromofluorobenzene (S)	%.	104	106	2		
Toluene-d8 (S)	%.	97	97	4		

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MSV/34893 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10341254010, 10341254011, 10341254013, 10341254014, 10341254015, 10341254016, 10341254017, 10341254018, 10341254019, 10341254020

METHOD BLANK: 2209777 Matrix: Solid
Associated Lab Samples: 10341254010, 10341254011, 10341254013, 10341254014, 10341254015, 10341254016, 10341254017, 10341254018, 10341254019, 10341254020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/16/16 12:14	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/16/16 12:14	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/16/16 12:14	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/16/16 12:14	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/16/16 12:14	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/16/16 12:14	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/16/16 12:14	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/16/16 12:14	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/16/16 12:14	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/16/16 12:14	
1,2,4-Trichlorobenzene	ug/kg	ND	200	9.1	03/16/16 12:14	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/16/16 12:14	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/16/16 12:14	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/16/16 12:14	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/16/16 12:14	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/16/16 12:14	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/16/16 12:14	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/16/16 12:14	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/16/16 12:14	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/16/16 12:14	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/16/16 12:14	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/16/16 12:14	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/16/16 12:14	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/16/16 12:14	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/16/16 12:14	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/16/16 12:14	
Acetone	ug/kg	ND	1000	224	03/16/16 12:14	
Allyl chloride	ug/kg	ND	200	12.2	03/16/16 12:14	
Benzene	ug/kg	ND	20.0	10.6	03/16/16 12:14	
Bromobenzene	ug/kg	ND	50.0	12.1	03/16/16 12:14	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/16/16 12:14	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/16/16 12:14	
Bromoform	ug/kg	ND	200	11.9	03/16/16 12:14	
Bromomethane	ug/kg	ND	500	87.8	03/16/16 12:14	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/16/16 12:14	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/16/16 12:14	
Chloroethane	ug/kg	ND	500	23.9	03/16/16 12:14	
Chloroform	ug/kg	ND	50.0	8.4	03/16/16 12:14	
Chloromethane	ug/kg	ND	200	10.1	03/16/16 12:14	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/16/16 12:14	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

METHOD BLANK: 2209777 Matrix: Solid

Associated Lab Samples: 10341254010, 10341254011, 10341254013, 10341254014, 10341254015, 10341254016, 10341254017, 10341254018, 10341254019, 10341254020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/16/16 12:14	
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/16/16 12:14	
Dibromomethane	ug/kg	ND	50.0	11.8	03/16/16 12:14	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/16/16 12:14	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/16/16 12:14	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/16/16 12:14	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/16/16 12:14	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/16/16 12:14	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/16/16 12:14	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/16/16 12:14	
Methylene Chloride	ug/kg	ND	200	14.9	03/16/16 12:14	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/16/16 12:14	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/16/16 12:14	
Naphthalene	ug/kg	ND	200	72.1	03/16/16 12:14	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/16/16 12:14	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/16/16 12:14	
Styrene	ug/kg	ND	50.0	7.9	03/16/16 12:14	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/16/16 12:14	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/16/16 12:14	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/16/16 12:14	
Toluene	ug/kg	ND	50.0	9.6	03/16/16 12:14	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/16/16 12:14	
trans-1,3-Dichloropropene	ug/kg	ND	200	19.4	03/16/16 12:14	
Trichloroethene	ug/kg	ND	50.0	12.1	03/16/16 12:14	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/16/16 12:14	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/16/16 12:14	
Xylene (Total)	ug/kg	ND	150	29.9	03/16/16 12:14	
1,2-Dichloroethane-d4 (S)	%.	103	75-129		03/16/16 12:14	
4-Bromofluorobenzene (S)	%.	101	75-125		03/16/16 12:14	
Toluene-d8 (S)	%.	98	75-125		03/16/16 12:14	

LABORATORY CONTROL SAMPLE: 2209778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	882	88	71-127	
1,1,1-Trichloroethane	ug/kg	1000	887	89	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	937	94	50-138	
1,1,2-Trichloroethane	ug/kg	1000	937	94	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	886	89	53-144	
1,1-Dichloroethane	ug/kg	1000	955	96	61-134	
1,1-Dichloroethene	ug/kg	1000	838	84	57-135	
1,1-Dichloropropene	ug/kg	1000	971	97	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	929	93	32-150	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	936	94	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	851	85	38-138	
1,2,4-Trimethylbenzene	ug/kg	1000	883	88	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2290	92	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	916	92	69-130	
1,2-Dichlorobenzene	ug/kg	1000	902	90	72-125	
1,2-Dichloroethane	ug/kg	1000	902	90	62-125	
1,2-Dichloropropane	ug/kg	1000	958	96	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	886	89	71-129	
1,3-Dichlorobenzene	ug/kg	1000	889	89	72-126	
1,3-Dichloropropane	ug/kg	1000	920	92	70-125	
1,4-Dichlorobenzene	ug/kg	1000	866	87	70-126	
2,2-Dichloropropane	ug/kg	1000	992	99	48-134	
2-Butanone (MEK)	ug/kg	5000	4650	93	38-149	
2-Chlorotoluene	ug/kg	1000	883	88	71-129	
4-Chlorotoluene	ug/kg	1000	916	92	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4870	97	52-145	
Acetone	ug/kg	5000	4770	95	65-142	
Allyl chloride	ug/kg	1000	868	87	54-125	
Benzene	ug/kg	1000	906	91	64-125	
Bromobenzene	ug/kg	1000	914	91	70-125	
Bromochloromethane	ug/kg	1000	1010	101	68-125	
Bromodichloromethane	ug/kg	1000	941	94	67-125	
Bromoform	ug/kg	1000	933	93	56-127	
Bromomethane	ug/kg	1000	886	89	34-137	
Carbon tetrachloride	ug/kg	1000	938	94	58-138	
Chlorobenzene	ug/kg	1000	915	92	72-125	
Chloroethane	ug/kg	1000	880	88	39-148	
Chloroform	ug/kg	1000	900	90	67-125	
Chloromethane	ug/kg	1000	801	80	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	983	98	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	949	95	62-127	
Dibromochloromethane	ug/kg	1000	962	96	67-125	
Dibromomethane	ug/kg	1000	930	93	63-129	
Dichlorodifluoromethane	ug/kg	1000	790	79	34-139	
Dichlorofluoromethane	ug/kg	1000	935	94	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	877	88	51-125	
Ethylbenzene	ug/kg	1000	873	87	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	937	94	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	963	96	75-127	
Methyl-tert-butyl ether	ug/kg	1000	953	95	61-125	
Methylene Chloride	ug/kg	1000	897	90	60-126	
n-Butylbenzene	ug/kg	1000	946	95	67-125	
n-Propylbenzene	ug/kg	1000	901	90	72-133	
Naphthalene	ug/kg	1000	894	89	35-147	
p-Isopropyltoluene	ug/kg	1000	911	91	69-127	
sec-Butylbenzene	ug/kg	1000	927	93	70-127	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE: 2209778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	950	95	73-125	
tert-Butylbenzene	ug/kg	1000	928	93	71-130	
Tetrachloroethene	ug/kg	1000	898	90	66-135	
Tetrahydrofuran	ug/kg	10000	10500	105	66-145	
Toluene	ug/kg	1000	901	90	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	885	88	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	898	90	67-125	
Trichloroethene	ug/kg	1000	942	94	62-141	
Trichlorofluoromethane	ug/kg	1000	857	86	38-150	
Vinyl chloride	ug/kg	1000	851	85	57-131	
Xylene (Total)	ug/kg	3000	2780	93	73-128	
1,2-Dichloroethane-d4 (S)	%.			99	75-129	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE SAMPLE: 2209806

Parameter	Units	10341254010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1230	1000	81	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1230	1040	85	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1230	1060	86	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1230	1050	85	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1230	1010	82	41-150	
1,1-Dichloroethane	ug/kg	ND	1230	1100	89	53-131	
1,1-Dichloroethene	ug/kg	ND	1230	961	78	41-133	
1,1-Dichloropropene	ug/kg	ND	1230	1080	88	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1230	999	81	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1230	1080	88	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1230	961	78	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1230	1050	85	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3080	2620	85	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1230	1040	84	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1230	1000	81	59-136	
1,2-Dichloroethane	ug/kg	ND	1230	1030	84	52-133	
1,2-Dichloropropane	ug/kg	ND	1230	1130	92	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1230	1010	82	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1230	1010	82	60-137	
1,3-Dichloropropane	ug/kg	ND	1230	1050	86	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1230	997	81	51-132	
2,2-Dichloropropane	ug/kg	ND	1230	1130	92	50-134	
2-Butanone (MEK)	ug/kg	ND	6160	5690	93	46-125	
2-Chlorotoluene	ug/kg	ND	1230	1040	84	60-141	
4-Chlorotoluene	ug/kg	ND	1230	1070	87	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6160	5510	90	47-146	
Acetone	ug/kg	ND	6160	5540	90	45-148	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

MATRIX SPIKE SAMPLE: 2209806

Parameter	Units	10341254010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/kg	ND	1230	1000	81	50-135	
Benzene	ug/kg	ND	1230	1050	85	41-134	
Bromobenzene	ug/kg	ND	1230	1040	84	59-134	
Bromochloromethane	ug/kg	ND	1230	1160	94	56-127	
Bromodichloromethane	ug/kg	ND	1230	1040	84	55-136	
Bromoform	ug/kg	ND	1230	1010	82	51-139	
Bromomethane	ug/kg	ND	1230	964	78	35-148	
Carbon tetrachloride	ug/kg	ND	1230	1060	86	50-140	
Chlorobenzene	ug/kg	ND	1230	1050	86	59-133	
Chloroethane	ug/kg	ND	1230	1000	81	30-150	
Chloroform	ug/kg	ND	1230	1020	82	58-128	
Chloromethane	ug/kg	ND	1230	994	81	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1230	1060	86	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1230	1090	89	57-133	
Dibromochloromethane	ug/kg	ND	1230	1050	86	54-141	
Dibromomethane	ug/kg	ND	1230	1130	92	53-134	
Dichlorodifluoromethane	ug/kg	ND	1230	751	61	30-125	
Dichlorofluoromethane	ug/kg	ND	1230	1040	84	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1230	1070	87	46-137	
Ethylbenzene	ug/kg	ND	1230	999	81	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1230	1020	83	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1230	1080	88	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1230	1100	90	53-133	
Methylene Chloride	ug/kg	ND	1230	1040	85	42-135	
n-Butylbenzene	ug/kg	ND	1230	1090	89	52-140	
n-Propylbenzene	ug/kg	ND	1230	1040	84	57-142	
Naphthalene	ug/kg	ND	1230	1020	80	41-150	
p-Isopropyltoluene	ug/kg	ND	1230	1070	87	54-139	
sec-Butylbenzene	ug/kg	ND	1230	1080	87	30-150	
Styrene	ug/kg	ND	1230	999	81	53-137	
tert-Butylbenzene	ug/kg	ND	1230	1100	89	59-138	
Tetrachloroethene	ug/kg	ND	1230	1020	83	53-138	
Tetrahydrofuran	ug/kg	ND	12300	12200	99	50-145	
Toluene	ug/kg	ND	1230	1030	84	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1230	1080	88	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1230	1050	85	59-139	
Trichloroethene	ug/kg	ND	1230	1040	84	52-143	
Trichlorofluoromethane	ug/kg	ND	1230	954	78	30-150	
Vinyl chloride	ug/kg	ND	1230	974	79	36-127	
Xylene (Total)	ug/kg	ND	3690	3090	84	56-137	
1,2-Dichloroethane-d4 (S)	%.				99	75-129	
4-Bromofluorobenzene (S)	%.				99	75-125	
Toluene-d8 (S)	%.				96	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209807

Parameter	Units	10341389010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	80.2		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	15.1J		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	20.9J		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	45.4J		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2209807

Parameter	Units	10341389010 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	7280	10900	39	30	D6
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	56.5		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	103	100	1		
4-Bromofluorobenzene (S)	%.	99	99	2		
Toluene-d8 (S)	%.	96	97	3		

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

QC Batch: MSV/34929
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10341254021

METHOD BLANK: 2213053
Matrix: Solid
Associated Lab Samples: 10341254021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	200	9.6	03/21/16 13:09	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/21/16 13:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/21/16 13:09	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/21/16 13:09	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/21/16 13:09	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/21/16 13:09	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/21/16 13:09	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/21/16 13:09	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/21/16 13:09	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/21/16 13:09	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/21/16 13:09	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/21/16 13:09	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/21/16 13:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/21/16 13:09	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/21/16 13:09	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/21/16 13:09	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/21/16 13:09	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/21/16 13:09	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/21/16 13:09	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/21/16 13:09	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/21/16 13:09	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/21/16 13:09	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/21/16 13:09	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/21/16 13:09	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/21/16 13:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/21/16 13:09	
Acetone	ug/kg	ND	1000	224	03/21/16 13:09	
Allyl chloride	ug/kg	ND	200	12.2	03/21/16 13:09	
Benzene	ug/kg	ND	20.0	7.0	03/21/16 13:09	
Bromobenzene	ug/kg	ND	50.0	12.1	03/21/16 13:09	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/21/16 13:09	
Bromodichloromethane	ug/kg	ND	200	8.9	03/21/16 13:09	
Bromoform	ug/kg	ND	500	11.9	03/21/16 13:09	
Bromomethane	ug/kg	ND	500	87.8	03/21/16 13:09	
Carbon tetrachloride	ug/kg	ND	200	12.1	03/21/16 13:09	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/21/16 13:09	
Chloroethane	ug/kg	ND	500	23.9	03/21/16 13:09	
Chloroform	ug/kg	ND	50.0	8.4	03/21/16 13:09	
Chloromethane	ug/kg	ND	200	10.1	03/21/16 13:09	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/21/16 13:09	
cis-1,3-Dichloropropene	ug/kg	ND	200	5.2	03/21/16 13:09	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

METHOD BLANK: 2213053 Matrix: Solid
Associated Lab Samples: 10341254021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/21/16 13:09	
Dibromomethane	ug/kg	ND	50.0	11.8	03/21/16 13:09	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/21/16 13:09	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/21/16 13:09	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/21/16 13:09	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/21/16 13:09	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/21/16 13:09	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/21/16 13:09	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/21/16 13:09	
Methylene Chloride	ug/kg	ND	200	14.9	03/21/16 13:09	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/21/16 13:09	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/21/16 13:09	
Naphthalene	ug/kg	ND	200	72.1	03/21/16 13:09	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/21/16 13:09	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/21/16 13:09	
Styrene	ug/kg	ND	50.0	7.9	03/21/16 13:09	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/21/16 13:09	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/21/16 13:09	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/21/16 13:09	
Toluene	ug/kg	ND	50.0	9.6	03/21/16 13:09	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/21/16 13:09	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/21/16 13:09	
Trichloroethene	ug/kg	ND	50.0	12.1	03/21/16 13:09	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/21/16 13:09	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/21/16 13:09	
Xylene (Total)	ug/kg	ND	150	29.9	03/21/16 13:09	
1,2-Dichloroethane-d4 (S)	%.	106	75-129		03/21/16 13:09	
4-Bromofluorobenzene (S)	%.	96	75-125		03/21/16 13:09	
Toluene-d8 (S)	%.	102	75-125		03/21/16 13:09	

LABORATORY CONTROL SAMPLE & LCSD: 2213054 2214128

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	997	917	100	92	71-127	8	20	
1,1,1-Trichloroethane	ug/kg	1000	1080	1020	108	102	64-132	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1050	976	105	98	50-138	7	20	
1,1,2-Trichloroethane	ug/kg	1000	1070	951	107	95	69-126	12	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1040	909	104	91	53-144	14	20	
1,1-Dichloroethane	ug/kg	1000	1060	972	106	97	61-134	8	20	
1,1-Dichloroethene	ug/kg	1000	985	884	99	88	57-135	11	20	
1,1-Dichloropropene	ug/kg	1000	1040	955	104	96	59-133	8	20	
1,2,3-Trichlorobenzene	ug/kg	1000	1010	983	101	98	32-150	3	20	
1,2,3-Trichloropropane	ug/kg	1000	925	871	92	87	62-130	6	20	
1,2,4-Trichlorobenzene	ug/kg	1000	1000	973	100	97	38-138	3	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE & LCSD: 2213054 2214128

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	1020	109	102	70-127	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2010	1910	80	76	40-141	5	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1050	954	105	95	69-130	9	20	
1,2-Dichlorobenzene	ug/kg	1000	1040	973	104	97	72-125	6	20	
1,2-Dichloroethane	ug/kg	1000	949	891	95	89	62-125	6	20	
1,2-Dichloropropane	ug/kg	1000	1020	931	102	93	67-126	9	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1080	1010	108	101	71-129	7	20	
1,3-Dichlorobenzene	ug/kg	1000	1020	930	102	93	72-126	9	20	
1,3-Dichloropropane	ug/kg	1000	1020	945	102	94	70-125	8	20	
1,4-Dichlorobenzene	ug/kg	1000	977	905	98	90	70-126	8	20	
2,2-Dichloropropane	ug/kg	1000	1050	1020	105	102	48-134	3	20	
2-Butanone (MEK)	ug/kg	5000	4320	4090	86	82	38-149	5	20	
2-Chlorotoluene	ug/kg	1000	1060	977	106	98	71-129	8	20	
4-Chlorotoluene	ug/kg	1000	1070	992	107	99	72-128	8	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5250	4790	105	96	52-145	9	20	
Acetone	ug/kg	5000	4610	4290	92	86	65-142	7	20	
Allyl chloride	ug/kg	1000	930	845	93	85	54-125	10	20	
Benzene	ug/kg	1000	988	917	99	92	64-125	7	20	
Bromobenzene	ug/kg	1000	983	912	98	91	70-125	8	20	
Bromochloromethane	ug/kg	1000	991	945	99	94	68-125	5	20	
Bromodichloromethane	ug/kg	1000	949	848	95	85	67-125	11	20	
Bromoform	ug/kg	1000	956	895	96	90	56-127	7	20	
Bromomethane	ug/kg	1000	1150	954	115	95	34-137	18	20	
Carbon tetrachloride	ug/kg	1000	933	878	93	88	58-138	6	20	
Chlorobenzene	ug/kg	1000	1020	935	102	94	72-125	9	20	
Chloroethane	ug/kg	1000	1150	1040	115	104	39-148	11	20	
Chloroform	ug/kg	1000	1000	920	100	92	67-125	8	20	
Chloromethane	ug/kg	1000	710	701	71	70	54-125	1	20	
cis-1,2-Dichloroethene	ug/kg	1000	959	909	96	91	67-125	5	20	
cis-1,3-Dichloropropene	ug/kg	1000	893	836	89	84	62-127	7	20	
Dibromochloromethane	ug/kg	1000	926	856	93	86	67-125	8	20	
Dibromomethane	ug/kg	1000	988	924	99	92	63-129	7	20	
Dichlorodifluoromethane	ug/kg	1000	647	626	65	63	34-139	3	20	
Dichlorofluoromethane	ug/kg	1000	2680	1510	268	151	36-144	56	20	CH,L0,R1
Diethyl ether (Ethyl ether)	ug/kg	1000	1430	1190	143	119	51-125	18	20	CH,L0
Ethylbenzene	ug/kg	1000	1050	970	105	97	70-129	8	20	
Hexachloro-1,3-butadiene	ug/kg	1000	999	936	100	94	48-126	6	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1130	1010	113	101	75-127	11	20	
Methyl-tert-butyl ether	ug/kg	1000	943	899	94	90	61-125	5	20	
Methylene Chloride	ug/kg	1000	1060	984	106	98	60-126	8	20	
n-Butylbenzene	ug/kg	1000	1120	1010	112	101	67-125	10	20	
n-Propylbenzene	ug/kg	1000	1120	1000	112	100	72-133	11	20	
Naphthalene	ug/kg	1000	910	886	91	89	35-147	3	20	
p-Isopropyltoluene	ug/kg	1000	1140	1070	114	107	69-127	6	20	
sec-Butylbenzene	ug/kg	1000	1130	1060	113	106	70-127	7	20	
Styrene	ug/kg	1000	1090	993	109	99	73-125	9	20	
tert-Butylbenzene	ug/kg	1000	1090	1030	109	103	71-130	6	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

LABORATORY CONTROL SAMPLE & LCSD: 2213054 2214128

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	1040	954	104	95	66-135	9	20	
Tetrahydrofuran	ug/kg	10000	9790	9100	98	91	66-145	7	20	
Toluene	ug/kg	1000	983	909	98	91	69-125	8	20	
trans-1,2-Dichloroethene	ug/kg	1000	953	893	95	89	55-135	7	20	
trans-1,3-Dichloropropene	ug/kg	1000	1000	909	100	91	67-125	10	20	
Trichloroethene	ug/kg	1000	1040	968	104	97	62-141	7	20	
Trichlorofluoromethane	ug/kg	1000	1430	950	143	95	38-150	40	20	R1
Vinyl chloride	ug/kg	1000	719	701	72	70	57-131	2	20	
Xylene (Total)	ug/kg	3000	3290	3020	110	101	73-128	9	20	
1,2-Dichloroethane-d4 (S)	%.				96	96	75-129			
4-Bromofluorobenzene (S)	%.				99	100	75-125			
Toluene-d8 (S)	%.				101	101	75-125			

MATRIX SPIKE SAMPLE: 2213055

Parameter	Units	10341721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1080	1200	111	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1080	1400	129	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1080	1340	124	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1080	1220	113	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1080	1230	114	41-150	
1,1-Dichloroethane	ug/kg	ND	1080	1320	123	53-131	
1,1-Dichloroethene	ug/kg	ND	1080	1230	114	41-133	
1,1-Dichloropropene	ug/kg	ND	1080	1290	119	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1080	1320	122	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1080	1210	112	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1080	1280	119	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1080	1370	127	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2700	2700	100	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1080	1270	117	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1080	1300	120	59-136	
1,2-Dichloroethane	ug/kg	ND	1080	1180	109	52-133	
1,2-Dichloropropane	ug/kg	ND	1080	1260	117	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1080	1360	126	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1080	1240	115	60-137	
1,3-Dichloropropane	ug/kg	ND	1080	1220	112	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1080	1190	110	51-132	
2,2-Dichloropropane	ug/kg	ND	1080	1340	124	50-134	
2-Butanone (MEK)	ug/kg	ND	5410	5830	108	46-125	
2-Chlorotoluene	ug/kg	ND	1080	1310	121	60-141	
4-Chlorotoluene	ug/kg	ND	1080	1320	122	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5410	6650	123	47-146	
Acetone	ug/kg	ND	5410	5670	105	45-148	
Allyl chloride	ug/kg	ND	1080	1200	111	50-135	
Benzene	ug/kg	ND	1080	1220	113	41-134	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

MATRIX SPIKE SAMPLE: 2213055

Parameter	Units	10341721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1080	1200	111	59-134	
Bromochloromethane	ug/kg	ND	1080	1260	116	56-127	
Bromodichloromethane	ug/kg	ND	1080	1150	106	55-136	
Bromoform	ug/kg	ND	1080	1180	109	51-139	
Bromomethane	ug/kg	ND	1080	1250	116	35-148	
Carbon tetrachloride	ug/kg	ND	1080	1170	108	50-140	
Chlorobenzene	ug/kg	ND	1080	1210	112	59-133	
Chloroethane	ug/kg	ND	1080	1330	123	30-150	
Chloroform	ug/kg	ND	1080	1250	114	58-128	
Chloromethane	ug/kg	ND	1080	937	87	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1080	1250	116	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1080	1140	105	57-133	
Dibromochloromethane	ug/kg	ND	1080	1120	103	54-141	
Dibromomethane	ug/kg	ND	1080	1210	112	53-134	
Dichlorodifluoromethane	ug/kg	ND	1080	774	72	30-125	
Dichlorofluoromethane	ug/kg	ND	1080	2080	192	30-150	CH,M0
Diethyl ether (Ethyl ether)	ug/kg	ND	1080	1690	157	46-137	CH,M0
Ethylbenzene	ug/kg	ND	1080	1260	117	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1080	1220	113	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1080	1360	126	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1080	1240	115	53-133	
Methylene Chloride	ug/kg	ND	1080	1270	118	42-135	
n-Butylbenzene	ug/kg	ND	1080	1390	128	52-140	
n-Propylbenzene	ug/kg	ND	1080	1390	129	57-142	
Naphthalene	ug/kg	ND	1080	1200	111	41-150	
p-Isopropyltoluene	ug/kg	ND	1080	1420	131	54-139	
sec-Butylbenzene	ug/kg	ND	1080	1400	130	30-150	
Styrene	ug/kg	ND	1080	1310	121	53-137	
tert-Butylbenzene	ug/kg	ND	1080	1390	128	59-138	
Tetrachloroethene	ug/kg	ND	1080	1200	111	53-138	
Tetrahydrofuran	ug/kg	ND	10800	11800	109	50-145	
Toluene	ug/kg	ND	1080	1160	108	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1080	1230	113	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1080	1190	110	59-139	
Trichloroethene	ug/kg	ND	1080	1280	118	52-143	
Trichlorofluoromethane	ug/kg	ND	1080	1390	129	30-150	
Vinyl chloride	ug/kg	ND	1080	940	87	36-127	
Xylene (Total)	ug/kg	ND	3240	3920	121	56-137	
1,2-Dichloroethane-d4 (S)	%.				97	75-129	
4-Bromofluorobenzene (S)	%.				103	75-125	
Toluene-d8 (S)	%.				99	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2213056

Parameter	Units	10341721002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	12.8J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

SAMPLE DUPLICATE: 2213056

Parameter	Units	10341721002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	113	113	0		
4-Bromofluorobenzene (S)	%.	95	98	3		
Toluene-d8 (S)	%.	101	102	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10341254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10341254001	**B28-S-58**	ASTM D2974	MPRP/61994		
10341254002	**B28-S-64**	ASTM D2974	MPRP/61994		
10341254003	**B28-S-72**	ASTM D2974	MPRP/61994		
10341254004	**B28-S-23**	ASTM D2974	MPRP/61994		
10341254005	**B26-S-34**	ASTM D2974	MPRP/61994		
10341254006	**B26-S-47**	ASTM D2974	MPRP/61995		
10341254007	**B26-S-53**	ASTM D2974	MPRP/61995		
10341254008	**B26-S-58**	ASTM D2974	MPRP/61995		
10341254009	**B26-S-73**	ASTM D2974	MPRP/61995		
10341254010	**DUP-S-3**	ASTM D2974	MPRP/61995		
10341254011	**DUP-S-4**	ASTM D2974	MPRP/61995		
10341254013	**B25-S-49**	ASTM D2974	MPRP/61995		
10341254014	**B25-S-50**	ASTM D2974	MPRP/61995		
10341254015	**B25-S-53**	ASTM D2974	MPRP/61995		
10341254016	**DUP-S-4**	ASTM D2974	MPRP/61995		
10341254017	**B25-S-55**	ASTM D2974	MPRP/61995		
10341254018	**DUP-S-5**	ASTM D2974	MPRP/61995		
10341254019	**B25-S-58**	ASTM D2974	MPRP/61995		
10341254020	**B25-S-65**	ASTM D2974	MPRP/61995		
10341254021	**B25-S-84**	ASTM D2974	MPRP/61995		
10341254001	**B28-S-58**	EPA 5035/5030B	MSV/34882	EPA 8260B	MSV/34883
10341254002	**B28-S-64**	EPA 5035/5030B	MSV/34882	EPA 8260B	MSV/34883
10341254003	**B28-S-72**	EPA 5035/5030B	MSV/34882	EPA 8260B	MSV/34883
10341254004	**B28-S-23**	EPA 5035/5030B	MSV/34882	EPA 8260B	MSV/34883
10341254005	**B26-S-34**	EPA 5035/5030B	MSV/34884	EPA 8260B	MSV/34902
10341254006	**B26-S-47**	EPA 5035/5030B	MSV/34884	EPA 8260B	MSV/34902
10341254007	**B26-S-53**	EPA 5035/5030B	MSV/34884	EPA 8260B	MSV/34902
10341254008	**B26-S-58**	EPA 5035/5030B	MSV/34884	EPA 8260B	MSV/34902
10341254009	**B26-S-73**	EPA 5035/5030B	MSV/34884	EPA 8260B	MSV/34902
10341254010	**DUP-S-3**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254011	**DUP-S-4**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254012	**TRIP BLANK-3**	EPA 5035/5030B	MSV/34882	EPA 8260B	MSV/34883
10341254013	**B25-S-49**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254014	**B25-S-50**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254015	**B25-S-53**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254016	**DUP-S-4**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254017	**B25-S-55**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254018	**DUP-S-5**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254019	**B25-S-58**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254020	**B25-S-65**	EPA 5035/5030B	MSV/34893	EPA 8260B	MSV/34906
10341254021	**B25-S-84**	EPA 5035/5030B	MSV/34929	EPA 8260B	MSV/34931

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

6034 1254

Page: 1 of 2

1988902

Section A Required Client Information:

Company: AECOM
Address: 800 LA SALLE, MINNEAPOLIS, MN 55402
Email To: TONY.CORYELL@AECOM.COM
Phone: 612-376-2000 Fax: ——
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: TONY.CORYELL@AECOM.COM
Copy To: BENJAMIN.KIRUS@AECOM.COM
Purchase Order No.:
Project Name: SLP SOLVENT PLUME
Project Number: 60482513

Section C Invoice Information:

Attention: TONY CORYELL
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: CAROL DAVY
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER ——

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): VOC (8260), MOISTURE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC (8260)	MOISTURE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B28-S-58	SL	G			3/7/16	1325		3	1						2			2	1		001
2	B28-S-64	SL	G				1340		3	1						2			2	1		002
3	B28-S-72	SL	G				1410		3	1						2			2	1		003
4	B28-S-23	SL	G				1315		3	1						2			2	1		004
5	B26-S-34	SL	G			3/8/16	1220		3	1						2			2	1		005
6	B26-S-47	SL	G				1315		3	1						2			2	1		006
7	B26-S-53	SL	G				1330		3	1						2			2	1		007
8	B26-S-58	SL	G				1345		3	1						2			2	1		008
9	B26-S-73	SL	G				1425		3	1						2			2	1		009
10	Dup-S-3	SL	G				1325		3	1						2			2	1		010
11	Dup-S-4	SL	G				1355		3	1						2			2	1		011
12	TRIP BLANK-3	SL	G			3/7/16	0700		1							1			1	—		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MELISSA MEELHUSEN / AECOM	3/11/16	1410	[illegible] PACE	3/11/16	1410	3.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MELISSA MEELHUSEN
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/11/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

6034 1254

Page: 2 of 2

1988903

Section A Required Client Information:

Company: AECOM
Address: 800 LA SALLE
MINNEAPOLIS, MN 55402
Email To: TONY.CORYELL@AECOM.COM
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: NORMAL

Section B Required Project Information:

Report To: TONY.CORYELL@AECOM.COM
Copy To: BENJAMIN.KLAUS@AECOM.COM
Purchase Order No.:
Project Name: SLP SOLVENT PLUME
Project Number: 60482513

Section C Invoice Information:

Attention: TONY CORYELL
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: CAROL DAVY
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC 8260	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B25-S-49	SL	G			3/11/16	1230		3	1						2		2	1		013
2	B25-S-50	SL	G			3/11/16	1235		3	1						2		2	1		014
3	B25-S-53	SL	G			3/11/16	1245		3	1						2		2	1		015
4	Dup-S-4	SL	G			3/11/16	1250		3	1						2		2	1		016
5	B25-S-55	SL	G			3/11/16	1255		3	1						2		2	1		017
6	Dup-S-5	SL	G			3/11/16	1300		3	1						2		2	1		018
7	B25-S-58	SL	G			3/11/16	1305		3	1						2		2	1		019
8	B25-S-65	SL	G			3/11/16	1310		3	1						2		2	1		020
9	B25-S-84	SL	G			3/11/16	1315		3	1						2		2	1		021
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MELISSA MEERHUSEN / AECOM	3/11/16	1410	[illegible] PACE	3-11-16	1410	3.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MELISSA MEERHUSEN

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/11/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10341254 (10341254)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☐ 151401164 ☐ B88A912167504 ☑ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.2 **Cooler Temp Corrected (°C):** 3.3 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +.1 **Date and Initials of Person Examining Contents:** CLF 3/4/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: SL				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	1 QL TB
Pace Trip Blank Lot # (if purchased): 113015-3				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: CAM **Date:** 3-14-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 25, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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CERTIFICATIONS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10342030001	**B24-5-51**	Solid	03/14/16 12:45	03/18/16 13:10
10342030002	**B24-5-56**	Solid	03/14/16 12:50	03/18/16 13:10
10342030003	**B24-5-63**	Solid	03/14/16 12:55	03/18/16 13:10
10342030004	**B24-5-91**	Solid	03/14/16 13:00	03/18/16 13:10
10342030005	**B24-5-96**	Solid	03/14/16 13:05	03/18/16 13:10
10342030006	**B23-5-56**	Solid	03/15/16 11:00	03/18/16 13:10
10342030007	**B23-5-76**	Solid	03/15/16 14:15	03/18/16 13:10
10342030008	**B23-5-78**	Solid	03/15/16 14:00	03/18/16 13:10
10342030009	**B23-5-93**	Solid	03/15/16 15:00	03/18/16 13:10
10342030010	**B39-5-53**	Solid	03/17/16 10:30	03/18/16 13:10
10342030011	**B39-5-57**	Solid	03/17/16 10:45	03/18/16 13:10
10342030012	**B39-5-61**	Solid	03/17/16 11:00	03/18/16 13:10
10342030013	**B38-5-42**	Solid	03/17/16 12:45	03/18/16 13:10
10342030014	**B38-5-49**	Solid	03/17/16 13:00	03/18/16 13:10
10342030015	**B38-5-60**	Solid	03/17/16 13:15	03/18/16 13:10
10342030016	**B37-5-45**	Solid	03/17/16 14:15	03/18/16 13:10
10342030017	**B37-5-50**	Solid	03/17/16 14:30	03/18/16 13:10
10342030018	**Trip Blank-4**	Solid	03/14/16 07:00	03/18/16 13:10

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10342030001	**B24-5-51**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030002	**B24-5-56**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030003	**B24-5-63**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030004	**B24-5-91**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030005	**B24-5-96**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030006	**B23-5-56**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030007	**B23-5-76**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030008	**B23-5-78**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030009	**B23-5-93**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030010	**B39-5-53**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030011	**B39-5-57**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030012	**B39-5-61**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030013	**B38-5-42**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030014	**B38-5-49**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030015	**B38-5-60**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030016	**B37-5-45**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030017	**B37-5-50**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342030018	**Trip Blank-4**	EPA 8260B	CD2	70

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10342030001	**B24-5-51**					
ASTM D2974	Percent Moisture	12.2	%	0.10	03/24/16 16:21	
10342030002	**B24-5-56**					
ASTM D2974	Percent Moisture	13.4	%	0.10	03/24/16 16:21	
EPA 8260B	Tetrachloroethene	95.3	ug/kg	57.3	03/22/16 03:47	
10342030003	**B24-5-63**					
ASTM D2974	Percent Moisture	12.7	%	0.10	03/24/16 16:21	
EPA 8260B	cis-1,2-Dichloroethene	121	ug/kg	59.1	03/22/16 04:04	
EPA 8260B	Tetrachloroethene	137	ug/kg	59.1	03/22/16 04:04	
10342030004	**B24-5-91**					
ASTM D2974	Percent Moisture	14.8	%	0.10	03/24/16 16:22	
EPA 8260B	cis-1,2-Dichloroethene	83.5	ug/kg	59.5	03/22/16 04:20	
10342030005	**B24-5-96**					
ASTM D2974	Percent Moisture	9.9	%	0.10	03/24/16 16:22	
EPA 8260B	cis-1,2-Dichloroethene	576	ug/kg	55.6	03/22/16 04:37	
10342030006	**B23-5-56**					
ASTM D2974	Percent Moisture	15.8	%	0.10	03/24/16 16:22	
EPA 8260B	Tetrachloroethene	130	ug/kg	57.5	03/22/16 14:46	
10342030007	**B23-5-76**					
ASTM D2974	Percent Moisture	14.8	%	0.10	03/24/16 16:22	
EPA 8260B	cis-1,2-Dichloroethene	409	ug/kg	56.9	03/22/16 15:03	
EPA 8260B	Tetrachloroethene	3020	ug/kg	56.9	03/22/16 15:03	
EPA 8260B	Trichloroethene	310	ug/kg	56.9	03/22/16 15:03	
10342030008	**B23-5-78**					
ASTM D2974	Percent Moisture	13.4	%	0.10	03/24/16 16:23	
EPA 8260B	cis-1,2-Dichloroethene	112	ug/kg	59.5	03/22/16 15:19	
EPA 8260B	Tetrachloroethene	170	ug/kg	59.5	03/22/16 15:19	
10342030009	**B23-5-93**					
ASTM D2974	Percent Moisture	14.5	%	0.10	03/24/16 16:23	
EPA 8260B	cis-1,2-Dichloroethene	262	ug/kg	58.5	03/22/16 15:36	
EPA 8260B	Tetrachloroethene	69.0	ug/kg	58.5	03/22/16 15:36	
10342030010	**B39-5-53**					
ASTM D2974	Percent Moisture	13.3	%	0.10	03/24/16 16:23	
10342030011	**B39-5-57**					
ASTM D2974	Percent Moisture	15.0	%	0.10	03/24/16 16:23	
10342030012	**B39-5-61**					
ASTM D2974	Percent Moisture	9.5	%	0.10	03/24/16 16:24	
10342030013	**B38-5-42**					
ASTM D2974	Percent Moisture	8.0	%	0.10	03/24/16 16:24	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10342030014	**B38-5-49**					
ASTM D2974	Percent Moisture	15.6	%	0.10	03/24/16 16:24	
10342030015	**B38-5-60**					
ASTM D2974	Percent Moisture	8.0	%	0.10	03/24/16 16:24	
10342030016	**B37-5-45**					
ASTM D2974	Percent Moisture	12.3	%	0.10	03/24/16 16:24	
10342030017	**B37-5-50**					
ASTM D2974	Percent Moisture	12.4	%	0.10	03/24/16 16:25	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 25, 2016

General Information:
18 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- B24-5-51 (Lab ID: 10342030001)
- B24-5-56 (Lab ID: 10342030002)
- B24-5-63 (Lab ID: 10342030003)
- B24-5-91 (Lab ID: 10342030004)
- B24-5-96 (Lab ID: 10342030005)
- Trip Blank-4 (Lab ID: 10342030018)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34944

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- B37-5-50 (Lab ID: 10342030017)
  - Dichlorofluoromethane
- LCS (Lab ID: 2214543)
  - Dichlorofluoromethane
- LCSD (Lab ID: 2214547)
  - Dichlorofluoromethane
- MS (Lab ID: 2214548)
  - Dichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 25, 2016

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/34938

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2214170)
  - Dibromochloromethane
  - trans-1,3-Dichloropropene

QC Batch: MSV/34944

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCSD (Lab ID: 2214547)
  - Dichlorofluoromethane
  - Diethyl ether (Ethyl ether)

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34938

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10341568001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2214218)
  - Dichlorofluoromethane
  - Diethyl ether (Ethyl ether)
  - Tetrahydrofuran
  - p-Isopropyltoluene
- MSD (Lab ID: 2214219)
  - Chloromethane
  - Dichlorodifluoromethane
  - Diethyl ether (Ethyl ether)
  - Vinyl chloride
  - p-Isopropyltoluene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2214219)
  - Bromomethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride

QC Batch: MSV/34944

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 25, 2016

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/34938

1M: Preserved from glass jar with headspace outside 48 hours.

- MS (Lab ID: 2214218)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 2214219)
  - 1,2-Dichloroethane-d4 (S)

C0: Result confirmed by second analysis.

- MS (Lab ID: 2214218)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 2214219)
  - 1,2-Dichloroethane-d4 (S)

QC Batch: MSV/34944

C0: Result confirmed by second analysis.

- B23-5-78 (Lab ID: 10342030008)
  - 1,2-Dichloroethane-d4 (S)
- B23-5-93 (Lab ID: 10342030009)
  - 1,2-Dichloroethane-d4 (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-51 **Lab ID: 10342030001** Collected: 03/14/16 12:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.2**	%	0.10	0.10	1		03/24/16 16:21		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1150	258	1	03/21/16 14:40	03/22/16 03:30	67-64-1	
Allyl chloride	ND	ug/kg	230	14.0	1	03/21/16 14:40	03/22/16 03:30	107-05-1	
Benzene	ND	ug/kg	23.0	8.1	1	03/21/16 14:40	03/22/16 03:30	71-43-2	
Bromobenzene	ND	ug/kg	57.5	13.9	1	03/21/16 14:40	03/22/16 03:30	108-86-1	
Bromochloromethane	ND	ug/kg	57.5	11.0	1	03/21/16 14:40	03/22/16 03:30	74-97-5	
Bromodichloromethane	ND	ug/kg	230	10.2	1	03/21/16 14:40	03/22/16 03:30	75-27-4	
Bromoform	ND	ug/kg	575	13.7	1	03/21/16 14:40	03/22/16 03:30	75-25-2	
Bromomethane	ND	ug/kg	575	101	1	03/21/16 14:40	03/22/16 03:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	288	95.5	1	03/21/16 14:40	03/22/16 03:30	78-93-3	
n-Butylbenzene	ND	ug/kg	57.5	10.8	1	03/21/16 14:40	03/22/16 03:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.5	11.7	1	03/21/16 14:40	03/22/16 03:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.5	15.4	1	03/21/16 14:40	03/22/16 03:30	98-06-6	
Carbon tetrachloride	ND	ug/kg	230	13.9	1	03/21/16 14:40	03/22/16 03:30	56-23-5	
Chlorobenzene	ND	ug/kg	57.5	9.3	1	03/21/16 14:40	03/22/16 03:30	108-90-7	
Chloroethane	ND	ug/kg	575	27.5	1	03/21/16 14:40	03/22/16 03:30	75-00-3	
Chloroform	ND	ug/kg	57.5	9.6	1	03/21/16 14:40	03/22/16 03:30	67-66-3	
Chloromethane	ND	ug/kg	230	11.6	1	03/21/16 14:40	03/22/16 03:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.5	11.8	1	03/21/16 14:40	03/22/16 03:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.5	10.8	1	03/21/16 14:40	03/22/16 03:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	575	44.5	1	03/21/16 14:40	03/22/16 03:30	96-12-8	
Dibromochloromethane	ND	ug/kg	230	8.9	1	03/21/16 14:40	03/22/16 03:30	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	57.5	9.2	1	03/21/16 14:40	03/22/16 03:30	106-93-4	
Dibromomethane	ND	ug/kg	57.5	13.6	1	03/21/16 14:40	03/22/16 03:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.5	13.9	1	03/21/16 14:40	03/22/16 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.5	14.0	1	03/21/16 14:40	03/22/16 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.5	12.2	1	03/21/16 14:40	03/22/16 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	14.1	1	03/21/16 14:40	03/22/16 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.5	11.0	1	03/21/16 14:40	03/22/16 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.5	12.9	1	03/21/16 14:40	03/22/16 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.5	13.1	1	03/21/16 14:40	03/22/16 03:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.5	20.5	1	03/21/16 14:40	03/22/16 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.5	9.4	1	03/21/16 14:40	03/22/16 03:30	156-60-5	
Dichlorofluoromethane	ND	ug/kg	575	54.1	1	03/21/16 14:40	03/22/16 03:30	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.5	11.7	1	03/21/16 14:40	03/22/16 03:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.5	9.0	1	03/21/16 14:40	03/22/16 03:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	230	23.2	1	03/21/16 14:40	03/22/16 03:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.5	11.5	1	03/21/16 14:40	03/22/16 03:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	230	6.0	1	03/21/16 14:40	03/22/16 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	575	22.3	1	03/21/16 14:40	03/22/16 03:30	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	230	18.7	1	03/21/16 14:40	03/22/16 03:30	60-29-7	
Ethylbenzene	ND	ug/kg	57.5	8.6	1	03/21/16 14:40	03/22/16 03:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	288	24.5	1	03/21/16 14:40	03/22/16 03:30	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-51 **Lab ID: 10342030001** Collected: 03/14/16 12:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.5	10.5	1	03/21/16 14:40	03/22/16 03:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.5	10.0	1	03/21/16 14:40	03/22/16 03:30	99-87-6	
Methylene Chloride	ND	ug/kg	230	17.1	1	03/21/16 14:40	03/22/16 03:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	288	73.1	1	03/21/16 14:40	03/22/16 03:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.5	10.8	1	03/21/16 14:40	03/22/16 03:30	1634-04-4	
Naphthalene	ND	ug/kg	230	82.9	1	03/21/16 14:40	03/22/16 03:30	91-20-3	
n-Propylbenzene	ND	ug/kg	57.5	12.3	1	03/21/16 14:40	03/22/16 03:30	103-65-1	
Styrene	ND	ug/kg	57.5	9.1	1	03/21/16 14:40	03/22/16 03:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	230	11.1	1	03/21/16 14:40	03/22/16 03:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.5	11.0	1	03/21/16 14:40	03/22/16 03:30	79-34-5	
Tetrachloroethene	ND	ug/kg	57.5	11.8	1	03/21/16 14:40	03/22/16 03:30	127-18-4	
Tetrahydrofuran	ND	ug/kg	2300	91.0	1	03/21/16 14:40	03/22/16 03:30	109-99-9	
Toluene	ND	ug/kg	57.5	11.0	1	03/21/16 14:40	03/22/16 03:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.5	22.3	1	03/21/16 14:40	03/22/16 03:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.5	10.5	1	03/21/16 14:40	03/22/16 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.5	11.2	1	03/21/16 14:40	03/22/16 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.5	15.8	1	03/21/16 14:40	03/22/16 03:30	79-00-5	
Trichloroethene	ND	ug/kg	57.5	13.9	1	03/21/16 14:40	03/22/16 03:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	230	39.8	1	03/21/16 14:40	03/22/16 03:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	230	15.9	1	03/21/16 14:40	03/22/16 03:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	230	13.6	1	03/21/16 14:40	03/22/16 03:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.5	11.5	1	03/21/16 14:40	03/22/16 03:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.5	11.1	1	03/21/16 14:40	03/22/16 03:30	108-67-8	
Vinyl chloride	ND	ug/kg	23.0	10.3	1	03/21/16 14:40	03/22/16 03:30	75-01-4	
Xylene (Total)	ND	ug/kg	173	34.4	1	03/21/16 14:40	03/22/16 03:30	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	113	%.	75-129		1	03/21/16 14:40	03/22/16 03:30	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/21/16 14:40	03/22/16 03:30	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/21/16 14:40	03/22/16 03:30	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-56 **Lab ID: 10342030002** Collected: 03/14/16 12:50 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.4**	%	0.10	0.10	1		03/24/16 16:21		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1150	257	1	03/21/16 14:40	03/22/16 03:47	67-64-1	
Allyl chloride	ND	ug/kg	229	14.0	1	03/21/16 14:40	03/22/16 03:47	107-05-1	
Benzene	ND	ug/kg	22.9	8.0	1	03/21/16 14:40	03/22/16 03:47	71-43-2	
Bromobenzene	ND	ug/kg	57.3	13.9	1	03/21/16 14:40	03/22/16 03:47	108-86-1	
Bromochloromethane	ND	ug/kg	57.3	11.0	1	03/21/16 14:40	03/22/16 03:47	74-97-5	
Bromodichloromethane	ND	ug/kg	229	10.2	1	03/21/16 14:40	03/22/16 03:47	75-27-4	
Bromoform	ND	ug/kg	573	13.6	1	03/21/16 14:40	03/22/16 03:47	75-25-2	
Bromomethane	ND	ug/kg	573	101	1	03/21/16 14:40	03/22/16 03:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	287	95.2	1	03/21/16 14:40	03/22/16 03:47	78-93-3	
n-Butylbenzene	ND	ug/kg	57.3	10.8	1	03/21/16 14:40	03/22/16 03:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.3	11.7	1	03/21/16 14:40	03/22/16 03:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.3	15.4	1	03/21/16 14:40	03/22/16 03:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	229	13.9	1	03/21/16 14:40	03/22/16 03:47	56-23-5	
Chlorobenzene	ND	ug/kg	57.3	9.3	1	03/21/16 14:40	03/22/16 03:47	108-90-7	
Chloroethane	ND	ug/kg	573	27.4	1	03/21/16 14:40	03/22/16 03:47	75-00-3	
Chloroform	ND	ug/kg	57.3	9.6	1	03/21/16 14:40	03/22/16 03:47	67-66-3	
Chloromethane	ND	ug/kg	229	11.6	1	03/21/16 14:40	03/22/16 03:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.3	11.8	1	03/21/16 14:40	03/22/16 03:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.3	10.8	1	03/21/16 14:40	03/22/16 03:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	573	44.4	1	03/21/16 14:40	03/22/16 03:47	96-12-8	
Dibromochloromethane	ND	ug/kg	229	8.9	1	03/21/16 14:40	03/22/16 03:47	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	57.3	9.2	1	03/21/16 14:40	03/22/16 03:47	106-93-4	
Dibromomethane	ND	ug/kg	57.3	13.5	1	03/21/16 14:40	03/22/16 03:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.3	13.9	1	03/21/16 14:40	03/22/16 03:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.3	14.0	1	03/21/16 14:40	03/22/16 03:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.3	12.2	1	03/21/16 14:40	03/22/16 03:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	229	14.1	1	03/21/16 14:40	03/22/16 03:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.3	11.0	1	03/21/16 14:40	03/22/16 03:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.3	12.8	1	03/21/16 14:40	03/22/16 03:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.3	13.1	1	03/21/16 14:40	03/22/16 03:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.3	20.4	1	03/21/16 14:40	03/22/16 03:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.3	9.4	1	03/21/16 14:40	03/22/16 03:47	156-60-5	
Dichlorofluoromethane	ND	ug/kg	573	53.9	1	03/21/16 14:40	03/22/16 03:47	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.3	11.7	1	03/21/16 14:40	03/22/16 03:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.3	9.0	1	03/21/16 14:40	03/22/16 03:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	229	23.2	1	03/21/16 14:40	03/22/16 03:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.3	11.5	1	03/21/16 14:40	03/22/16 03:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	229	6.0	1	03/21/16 14:40	03/22/16 03:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	573	22.2	1	03/21/16 14:40	03/22/16 03:47	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	229	18.7	1	03/21/16 14:40	03/22/16 03:47	60-29-7	
Ethylbenzene	ND	ug/kg	57.3	8.6	1	03/21/16 14:40	03/22/16 03:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	287	24.4	1	03/21/16 14:40	03/22/16 03:47	87-68-3	

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1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-56 **Lab ID: 10342030002** Collected: 03/14/16 12:50 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.3	10.4	1	03/21/16 14:40	03/22/16 03:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.3	10.0	1	03/21/16 14:40	03/22/16 03:47	99-87-6	
Methylene Chloride	ND	ug/kg	229	17.1	1	03/21/16 14:40	03/22/16 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	287	72.9	1	03/21/16 14:40	03/22/16 03:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.3	10.7	1	03/21/16 14:40	03/22/16 03:47	1634-04-4	
Naphthalene	ND	ug/kg	229	82.7	1	03/21/16 14:40	03/22/16 03:47	91-20-3	
n-Propylbenzene	ND	ug/kg	57.3	12.3	1	03/21/16 14:40	03/22/16 03:47	103-65-1	
Styrene	ND	ug/kg	57.3	9.1	1	03/21/16 14:40	03/22/16 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	229	11.0	1	03/21/16 14:40	03/22/16 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.3	11.0	1	03/21/16 14:40	03/22/16 03:47	79-34-5	
Tetrachloroethene	**95.3**	ug/kg	57.3	11.8	1	03/21/16 14:40	03/22/16 03:47	127-18-4	
Tetrahydrofuran	ND	ug/kg	2290	90.7	1	03/21/16 14:40	03/22/16 03:47	109-99-9	
Toluene	ND	ug/kg	57.3	11.0	1	03/21/16 14:40	03/22/16 03:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.3	22.2	1	03/21/16 14:40	03/22/16 03:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.3	10.4	1	03/21/16 14:40	03/22/16 03:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.3	11.2	1	03/21/16 14:40	03/22/16 03:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.3	15.7	1	03/21/16 14:40	03/22/16 03:47	79-00-5	
Trichloroethene	ND	ug/kg	57.3	13.9	1	03/21/16 14:40	03/22/16 03:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	229	39.7	1	03/21/16 14:40	03/22/16 03:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	229	15.8	1	03/21/16 14:40	03/22/16 03:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	229	13.5	1	03/21/16 14:40	03/22/16 03:47	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.3	11.5	1	03/21/16 14:40	03/22/16 03:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.3	11.1	1	03/21/16 14:40	03/22/16 03:47	108-67-8	
Vinyl chloride	ND	ug/kg	22.9	10.3	1	03/21/16 14:40	03/22/16 03:47	75-01-4	
Xylene (Total)	ND	ug/kg	172	34.3	1	03/21/16 14:40	03/22/16 03:47	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	118	%.	75-129		1	03/21/16 14:40	03/22/16 03:47	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/21/16 14:40	03/22/16 03:47	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/21/16 14:40	03/22/16 03:47	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-63 **Lab ID: 10342030003** Collected: 03/14/16 12:55 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.7**	%	0.10	0.10	1		03/24/16 16:21		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	265	1	03/21/16 14:40	03/22/16 04:04	67-64-1	
Allyl chloride	ND	ug/kg	237	14.4	1	03/21/16 14:40	03/22/16 04:04	107-05-1	
Benzene	ND	ug/kg	23.7	8.3	1	03/21/16 14:40	03/22/16 04:04	71-43-2	
Bromobenzene	ND	ug/kg	59.1	14.3	1	03/21/16 14:40	03/22/16 04:04	108-86-1	
Bromochloromethane	ND	ug/kg	59.1	11.3	1	03/21/16 14:40	03/22/16 04:04	74-97-5	
Bromodichloromethane	ND	ug/kg	237	10.5	1	03/21/16 14:40	03/22/16 04:04	75-27-4	
Bromoform	ND	ug/kg	591	14.1	1	03/21/16 14:40	03/22/16 04:04	75-25-2	
Bromomethane	ND	ug/kg	591	104	1	03/21/16 14:40	03/22/16 04:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	296	98.2	1	03/21/16 14:40	03/22/16 04:04	78-93-3	
n-Butylbenzene	ND	ug/kg	59.1	11.1	1	03/21/16 14:40	03/22/16 04:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.1	12.1	1	03/21/16 14:40	03/22/16 04:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.1	15.8	1	03/21/16 14:40	03/22/16 04:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	237	14.3	1	03/21/16 14:40	03/22/16 04:04	56-23-5	
Chlorobenzene	ND	ug/kg	59.1	9.6	1	03/21/16 14:40	03/22/16 04:04	108-90-7	
Chloroethane	ND	ug/kg	591	28.3	1	03/21/16 14:40	03/22/16 04:04	75-00-3	
Chloroform	ND	ug/kg	59.1	9.9	1	03/21/16 14:40	03/22/16 04:04	67-66-3	
Chloromethane	ND	ug/kg	237	11.9	1	03/21/16 14:40	03/22/16 04:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.1	12.2	1	03/21/16 14:40	03/22/16 04:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.1	11.1	1	03/21/16 14:40	03/22/16 04:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	591	45.8	1	03/21/16 14:40	03/22/16 04:04	96-12-8	
Dibromochloromethane	ND	ug/kg	237	9.2	1	03/21/16 14:40	03/22/16 04:04	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	59.1	9.5	1	03/21/16 14:40	03/22/16 04:04	106-93-4	
Dibromomethane	ND	ug/kg	59.1	14.0	1	03/21/16 14:40	03/22/16 04:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.1	14.3	1	03/21/16 14:40	03/22/16 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.1	14.4	1	03/21/16 14:40	03/22/16 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.1	12.5	1	03/21/16 14:40	03/22/16 04:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	14.5	1	03/21/16 14:40	03/22/16 04:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.1	11.3	1	03/21/16 14:40	03/22/16 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.1	13.2	1	03/21/16 14:40	03/22/16 04:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.1	13.5	1	03/21/16 14:40	03/22/16 04:04	75-35-4	
cis-1,2-Dichloroethene	**121**	ug/kg	59.1	21.0	1	03/21/16 14:40	03/22/16 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.1	9.7	1	03/21/16 14:40	03/22/16 04:04	156-60-5	
Dichlorofluoromethane	ND	ug/kg	591	55.6	1	03/21/16 14:40	03/22/16 04:04	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.1	12.1	1	03/21/16 14:40	03/22/16 04:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.1	9.3	1	03/21/16 14:40	03/22/16 04:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	23.9	1	03/21/16 14:40	03/22/16 04:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.1	11.8	1	03/21/16 14:40	03/22/16 04:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	237	6.1	1	03/21/16 14:40	03/22/16 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	591	22.9	1	03/21/16 14:40	03/22/16 04:04	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	237	19.3	1	03/21/16 14:40	03/22/16 04:04	60-29-7	
Ethylbenzene	ND	ug/kg	59.1	8.8	1	03/21/16 14:40	03/22/16 04:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	296	25.2	1	03/21/16 14:40	03/22/16 04:04	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-63 **Lab ID: 10342030003** Collected: 03/14/16 12:55 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.1	10.7	1	03/21/16 14:40	03/22/16 04:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.1	10.3	1	03/21/16 14:40	03/22/16 04:04	99-87-6	
Methylene Chloride	ND	ug/kg	237	17.6	1	03/21/16 14:40	03/22/16 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	296	75.2	1	03/21/16 14:40	03/22/16 04:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.1	11.1	1	03/21/16 14:40	03/22/16 04:04	1634-04-4	
Naphthalene	ND	ug/kg	237	85.3	1	03/21/16 14:40	03/22/16 04:04	91-20-3	
n-Propylbenzene	ND	ug/kg	59.1	12.7	1	03/21/16 14:40	03/22/16 04:04	103-65-1	
Styrene	ND	ug/kg	59.1	9.4	1	03/21/16 14:40	03/22/16 04:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	237	11.4	1	03/21/16 14:40	03/22/16 04:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.1	11.3	1	03/21/16 14:40	03/22/16 04:04	79-34-5	
Tetrachloroethene	**137**	ug/kg	59.1	12.2	1	03/21/16 14:40	03/22/16 04:04	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	93.5	1	03/21/16 14:40	03/22/16 04:04	109-99-9	
Toluene	ND	ug/kg	59.1	11.3	1	03/21/16 14:40	03/22/16 04:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.1	22.9	1	03/21/16 14:40	03/22/16 04:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.1	10.8	1	03/21/16 14:40	03/22/16 04:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.1	11.5	1	03/21/16 14:40	03/22/16 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.1	16.2	1	03/21/16 14:40	03/22/16 04:04	79-00-5	
Trichloroethene	ND	ug/kg	59.1	14.3	1	03/21/16 14:40	03/22/16 04:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	40.9	1	03/21/16 14:40	03/22/16 04:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	16.3	1	03/21/16 14:40	03/22/16 04:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	14.0	1	03/21/16 14:40	03/22/16 04:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.1	11.8	1	03/21/16 14:40	03/22/16 04:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.1	11.4	1	03/21/16 14:40	03/22/16 04:04	108-67-8	
Vinyl chloride	ND	ug/kg	23.7	10.6	1	03/21/16 14:40	03/22/16 04:04	75-01-4	
Xylene (Total)	ND	ug/kg	177	35.4	1	03/21/16 14:40	03/22/16 04:04	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	120	%.	75-129		1	03/21/16 14:40	03/22/16 04:04	17060-07-0	
Toluene-d8 (S)	103	%.	75-125		1	03/21/16 14:40	03/22/16 04:04	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/21/16 14:40	03/22/16 04:04	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-91 **Lab ID: 10342030004** Collected: 03/14/16 13:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.8**	%	0.10	0.10	1		03/24/16 16:22		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	267	1	03/21/16 14:40	03/22/16 04:20	67-64-1	
Allyl chloride	ND	ug/kg	238	14.5	1	03/21/16 14:40	03/22/16 04:20	107-05-1	
Benzene	ND	ug/kg	23.8	8.3	1	03/21/16 14:40	03/22/16 04:20	71-43-2	
Bromobenzene	ND	ug/kg	59.5	14.4	1	03/21/16 14:40	03/22/16 04:20	108-86-1	
Bromochloromethane	ND	ug/kg	59.5	11.4	1	03/21/16 14:40	03/22/16 04:20	74-97-5	
Bromodichloromethane	ND	ug/kg	238	10.6	1	03/21/16 14:40	03/22/16 04:20	75-27-4	
Bromoform	ND	ug/kg	595	14.2	1	03/21/16 14:40	03/22/16 04:20	75-25-2	
Bromomethane	ND	ug/kg	595	105	1	03/21/16 14:40	03/22/16 04:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	298	98.8	1	03/21/16 14:40	03/22/16 04:20	78-93-3	
n-Butylbenzene	ND	ug/kg	59.5	11.2	1	03/21/16 14:40	03/22/16 04:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.5	12.1	1	03/21/16 14:40	03/22/16 04:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.5	16.0	1	03/21/16 14:40	03/22/16 04:20	98-06-6	
Carbon tetrachloride	ND	ug/kg	238	14.4	1	03/21/16 14:40	03/22/16 04:20	56-23-5	
Chlorobenzene	ND	ug/kg	59.5	9.7	1	03/21/16 14:40	03/22/16 04:20	108-90-7	
Chloroethane	ND	ug/kg	595	28.5	1	03/21/16 14:40	03/22/16 04:20	75-00-3	
Chloroform	ND	ug/kg	59.5	10	1	03/21/16 14:40	03/22/16 04:20	67-66-3	
Chloromethane	ND	ug/kg	238	12.0	1	03/21/16 14:40	03/22/16 04:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.5	12.3	1	03/21/16 14:40	03/22/16 04:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.5	11.2	1	03/21/16 14:40	03/22/16 04:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	595	46.1	1	03/21/16 14:40	03/22/16 04:20	96-12-8	
Dibromochloromethane	ND	ug/kg	238	9.2	1	03/21/16 14:40	03/22/16 04:20	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	59.5	9.6	1	03/21/16 14:40	03/22/16 04:20	106-93-4	
Dibromomethane	ND	ug/kg	59.5	14.0	1	03/21/16 14:40	03/22/16 04:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.5	14.4	1	03/21/16 14:40	03/22/16 04:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.5	14.5	1	03/21/16 14:40	03/22/16 04:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.5	12.6	1	03/21/16 14:40	03/22/16 04:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	14.6	1	03/21/16 14:40	03/22/16 04:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.5	11.4	1	03/21/16 14:40	03/22/16 04:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.5	13.3	1	03/21/16 14:40	03/22/16 04:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.5	13.6	1	03/21/16 14:40	03/22/16 04:20	75-35-4	
cis-1,2-Dichloroethene	**83.5**	ug/kg	59.5	21.2	1	03/21/16 14:40	03/22/16 04:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.5	9.8	1	03/21/16 14:40	03/22/16 04:20	156-60-5	
Dichlorofluoromethane	ND	ug/kg	595	56.0	1	03/21/16 14:40	03/22/16 04:20	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.5	12.1	1	03/21/16 14:40	03/22/16 04:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.5	9.3	1	03/21/16 14:40	03/22/16 04:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	238	24.0	1	03/21/16 14:40	03/22/16 04:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.5	11.9	1	03/21/16 14:40	03/22/16 04:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	238	6.2	1	03/21/16 14:40	03/22/16 04:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	595	23.1	1	03/21/16 14:40	03/22/16 04:20	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	238	19.4	1	03/21/16 14:40	03/22/16 04:20	60-29-7	
Ethylbenzene	ND	ug/kg	59.5	8.9	1	03/21/16 14:40	03/22/16 04:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	298	25.4	1	03/21/16 14:40	03/22/16 04:20	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-91 **Lab ID: 10342030004** Collected: 03/14/16 13:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.5	10.8	1	03/21/16 14:40	03/22/16 04:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.5	10.4	1	03/21/16 14:40	03/22/16 04:20	99-87-6	
Methylene Chloride	ND	ug/kg	238	17.7	1	03/21/16 14:40	03/22/16 04:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	298	75.7	1	03/21/16 14:40	03/22/16 04:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.5	11.2	1	03/21/16 14:40	03/22/16 04:20	1634-04-4	
Naphthalene	ND	ug/kg	238	85.8	1	03/21/16 14:40	03/22/16 04:20	91-20-3	
n-Propylbenzene	ND	ug/kg	59.5	12.7	1	03/21/16 14:40	03/22/16 04:20	103-65-1	
Styrene	ND	ug/kg	59.5	9.5	1	03/21/16 14:40	03/22/16 04:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	238	11.4	1	03/21/16 14:40	03/22/16 04:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.5	11.4	1	03/21/16 14:40	03/22/16 04:20	79-34-5	
Tetrachloroethene	ND	ug/kg	59.5	12.3	1	03/21/16 14:40	03/22/16 04:20	127-18-4	
Tetrahydrofuran	ND	ug/kg	2380	94.2	1	03/21/16 14:40	03/22/16 04:20	109-99-9	
Toluene	ND	ug/kg	59.5	11.4	1	03/21/16 14:40	03/22/16 04:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.5	23.1	1	03/21/16 14:40	03/22/16 04:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.5	10.8	1	03/21/16 14:40	03/22/16 04:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.5	11.6	1	03/21/16 14:40	03/22/16 04:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.5	16.3	1	03/21/16 14:40	03/22/16 04:20	79-00-5	
Trichloroethene	ND	ug/kg	59.5	14.4	1	03/21/16 14:40	03/22/16 04:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	238	41.2	1	03/21/16 14:40	03/22/16 04:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	238	16.4	1	03/21/16 14:40	03/22/16 04:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	238	14.0	1	03/21/16 14:40	03/22/16 04:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.5	11.9	1	03/21/16 14:40	03/22/16 04:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.5	11.5	1	03/21/16 14:40	03/22/16 04:20	108-67-8	
Vinyl chloride	ND	ug/kg	23.8	10.7	1	03/21/16 14:40	03/22/16 04:20	75-01-4	
Xylene (Total)	ND	ug/kg	179	35.6	1	03/21/16 14:40	03/22/16 04:20	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	117	%.	75-129		1	03/21/16 14:40	03/22/16 04:20	17060-07-0	
Toluene-d8 (S)	103	%.	75-125		1	03/21/16 14:40	03/22/16 04:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	03/21/16 14:40	03/22/16 04:20	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-96 **Lab ID: 10342030005** Collected: 03/14/16 13:05 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**9.9**	%	0.10	0.10	1		03/24/16 16:22		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1110	249	1	03/21/16 14:40	03/22/16 04:37	67-64-1	
Allyl chloride	ND	ug/kg	222	13.6	1	03/21/16 14:40	03/22/16 04:37	107-05-1	
Benzene	ND	ug/kg	22.2	7.8	1	03/21/16 14:40	03/22/16 04:37	71-43-2	
Bromobenzene	ND	ug/kg	55.6	13.5	1	03/21/16 14:40	03/22/16 04:37	108-86-1	
Bromochloromethane	ND	ug/kg	55.6	10.7	1	03/21/16 14:40	03/22/16 04:37	74-97-5	
Bromodichloromethane	ND	ug/kg	222	9.9	1	03/21/16 14:40	03/22/16 04:37	75-27-4	
Bromoform	ND	ug/kg	556	13.2	1	03/21/16 14:40	03/22/16 04:37	75-25-2	
Bromomethane	ND	ug/kg	556	97.6	1	03/21/16 14:40	03/22/16 04:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	278	92.3	1	03/21/16 14:40	03/22/16 04:37	78-93-3	
n-Butylbenzene	ND	ug/kg	55.6	10.5	1	03/21/16 14:40	03/22/16 04:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.6	11.3	1	03/21/16 14:40	03/22/16 04:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.6	14.9	1	03/21/16 14:40	03/22/16 04:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	222	13.5	1	03/21/16 14:40	03/22/16 04:37	56-23-5	
Chlorobenzene	ND	ug/kg	55.6	9.0	1	03/21/16 14:40	03/22/16 04:37	108-90-7	
Chloroethane	ND	ug/kg	556	26.6	1	03/21/16 14:40	03/22/16 04:37	75-00-3	
Chloroform	ND	ug/kg	55.6	9.3	1	03/21/16 14:40	03/22/16 04:37	67-66-3	
Chloromethane	ND	ug/kg	222	11.2	1	03/21/16 14:40	03/22/16 04:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.6	11.5	1	03/21/16 14:40	03/22/16 04:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.6	10.4	1	03/21/16 14:40	03/22/16 04:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	556	43.0	1	03/21/16 14:40	03/22/16 04:37	96-12-8	
Dibromochloromethane	ND	ug/kg	222	8.6	1	03/21/16 14:40	03/22/16 04:37	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	55.6	8.9	1	03/21/16 14:40	03/22/16 04:37	106-93-4	
Dibromomethane	ND	ug/kg	55.6	13.1	1	03/21/16 14:40	03/22/16 04:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.6	13.5	1	03/21/16 14:40	03/22/16 04:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.6	13.6	1	03/21/16 14:40	03/22/16 04:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.6	11.8	1	03/21/16 14:40	03/22/16 04:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	222	13.7	1	03/21/16 14:40	03/22/16 04:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.6	10.6	1	03/21/16 14:40	03/22/16 04:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.6	12.5	1	03/21/16 14:40	03/22/16 04:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.6	12.7	1	03/21/16 14:40	03/22/16 04:37	75-35-4	
cis-1,2-Dichloroethene	**576**	ug/kg	55.6	19.8	1	03/21/16 14:40	03/22/16 04:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.6	9.1	1	03/21/16 14:40	03/22/16 04:37	156-60-5	
Dichlorofluoromethane	ND	ug/kg	556	52.3	1	03/21/16 14:40	03/22/16 04:37	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.6	11.3	1	03/21/16 14:40	03/22/16 04:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.6	8.7	1	03/21/16 14:40	03/22/16 04:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	222	22.5	1	03/21/16 14:40	03/22/16 04:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.6	11.1	1	03/21/16 14:40	03/22/16 04:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	222	5.8	1	03/21/16 14:40	03/22/16 04:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	556	21.6	1	03/21/16 14:40	03/22/16 04:37	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	222	18.1	1	03/21/16 14:40	03/22/16 04:37	60-29-7	
Ethylbenzene	ND	ug/kg	55.6	8.3	1	03/21/16 14:40	03/22/16 04:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	278	23.7	1	03/21/16 14:40	03/22/16 04:37	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B24-5-96 **Lab ID: 10342030005** Collected: 03/14/16 13:05 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	55.6	10.1	1	03/21/16 14:40	03/22/16 04:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.6	9.7	1	03/21/16 14:40	03/22/16 04:37	99-87-6	
Methylene Chloride	ND	ug/kg	222	16.6	1	03/21/16 14:40	03/22/16 04:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	278	70.7	1	03/21/16 14:40	03/22/16 04:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.6	10.4	1	03/21/16 14:40	03/22/16 04:37	1634-04-4	
Naphthalene	ND	ug/kg	222	80.2	1	03/21/16 14:40	03/22/16 04:37	91-20-3	
n-Propylbenzene	ND	ug/kg	55.6	11.9	1	03/21/16 14:40	03/22/16 04:37	103-65-1	
Styrene	ND	ug/kg	55.6	8.8	1	03/21/16 14:40	03/22/16 04:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	222	10.7	1	03/21/16 14:40	03/22/16 04:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.6	10.6	1	03/21/16 14:40	03/22/16 04:37	79-34-5	
Tetrachloroethene	ND	ug/kg	55.6	11.5	1	03/21/16 14:40	03/22/16 04:37	127-18-4	
Tetrahydrofuran	ND	ug/kg	2220	88.0	1	03/21/16 14:40	03/22/16 04:37	109-99-9	
Toluene	ND	ug/kg	55.6	10.7	1	03/21/16 14:40	03/22/16 04:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.6	21.6	1	03/21/16 14:40	03/22/16 04:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.6	10.1	1	03/21/16 14:40	03/22/16 04:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.6	10.8	1	03/21/16 14:40	03/22/16 04:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.6	15.2	1	03/21/16 14:40	03/22/16 04:37	79-00-5	
Trichloroethene	ND	ug/kg	55.6	13.5	1	03/21/16 14:40	03/22/16 04:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	222	38.5	1	03/21/16 14:40	03/22/16 04:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	222	15.3	1	03/21/16 14:40	03/22/16 04:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	222	13.1	1	03/21/16 14:40	03/22/16 04:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.6	11.1	1	03/21/16 14:40	03/22/16 04:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.6	10.8	1	03/21/16 14:40	03/22/16 04:37	108-67-8	
Vinyl chloride	ND	ug/kg	22.2	10	1	03/21/16 14:40	03/22/16 04:37	75-01-4	
Xylene (Total)	ND	ug/kg	167	33.3	1	03/21/16 14:40	03/22/16 04:37	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	119	%.	75-129		1	03/21/16 14:40	03/22/16 04:37	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	03/21/16 14:40	03/22/16 04:37	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/21/16 14:40	03/22/16 04:37	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-56 **Lab ID: 10342030006** Collected: 03/15/16 11:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.8**	%	0.10	0.10	1		03/24/16 16:22		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1150	258	1	03/22/16 11:22	03/22/16 14:46	67-64-1	
Allyl chloride	ND	ug/kg	230	14.0	1	03/22/16 11:22	03/22/16 14:46	107-05-1	
Benzene	ND	ug/kg	23.0	8.1	1	03/22/16 11:22	03/22/16 14:46	71-43-2	
Bromobenzene	ND	ug/kg	57.5	13.9	1	03/22/16 11:22	03/22/16 14:46	108-86-1	
Bromochloromethane	ND	ug/kg	57.5	11.0	1	03/22/16 11:22	03/22/16 14:46	74-97-5	
Bromodichloromethane	ND	ug/kg	230	10.2	1	03/22/16 11:22	03/22/16 14:46	75-27-4	
Bromoform	ND	ug/kg	575	13.7	1	03/22/16 11:22	03/22/16 14:46	75-25-2	
Bromomethane	ND	ug/kg	575	101	1	03/22/16 11:22	03/22/16 14:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	288	95.5	1	03/22/16 11:22	03/22/16 14:46	78-93-3	
n-Butylbenzene	ND	ug/kg	57.5	10.8	1	03/22/16 11:22	03/22/16 14:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.5	11.7	1	03/22/16 11:22	03/22/16 14:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.5	15.4	1	03/22/16 11:22	03/22/16 14:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	230	13.9	1	03/22/16 11:22	03/22/16 14:46	56-23-5	
Chlorobenzene	ND	ug/kg	57.5	9.3	1	03/22/16 11:22	03/22/16 14:46	108-90-7	
Chloroethane	ND	ug/kg	575	27.5	1	03/22/16 11:22	03/22/16 14:46	75-00-3	
Chloroform	ND	ug/kg	57.5	9.6	1	03/22/16 11:22	03/22/16 14:46	67-66-3	
Chloromethane	ND	ug/kg	230	11.6	1	03/22/16 11:22	03/22/16 14:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.5	11.9	1	03/22/16 11:22	03/22/16 14:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.5	10.8	1	03/22/16 11:22	03/22/16 14:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	575	44.5	1	03/22/16 11:22	03/22/16 14:46	96-12-8	
Dibromochloromethane	ND	ug/kg	230	8.9	1	03/22/16 11:22	03/22/16 14:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.5	9.3	1	03/22/16 11:22	03/22/16 14:46	106-93-4	
Dibromomethane	ND	ug/kg	57.5	13.6	1	03/22/16 11:22	03/22/16 14:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.5	13.9	1	03/22/16 11:22	03/22/16 14:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.5	14.0	1	03/22/16 11:22	03/22/16 14:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.5	12.2	1	03/22/16 11:22	03/22/16 14:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	14.2	1	03/22/16 11:22	03/22/16 14:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.5	11.0	1	03/22/16 11:22	03/22/16 14:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.5	12.9	1	03/22/16 11:22	03/22/16 14:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.5	13.1	1	03/22/16 11:22	03/22/16 14:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.5	20.5	1	03/22/16 11:22	03/22/16 14:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.5	9.4	1	03/22/16 11:22	03/22/16 14:46	156-60-5	
Dichlorofluoromethane	ND	ug/kg	575	54.1	1	03/22/16 11:22	03/22/16 14:46	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.5	11.7	1	03/22/16 11:22	03/22/16 14:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.5	9.0	1	03/22/16 11:22	03/22/16 14:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	230	23.2	1	03/22/16 11:22	03/22/16 14:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.5	11.5	1	03/22/16 11:22	03/22/16 14:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	230	6.0	1	03/22/16 11:22	03/22/16 14:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	575	22.3	1	03/22/16 11:22	03/22/16 14:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	230	18.8	1	03/22/16 11:22	03/22/16 14:46	60-29-7	
Ethylbenzene	ND	ug/kg	57.5	8.6	1	03/22/16 11:22	03/22/16 14:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	288	24.5	1	03/22/16 11:22	03/22/16 14:46	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-56 **Lab ID: 10342030006** Collected: 03/15/16 11:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.5	10.5	1	03/22/16 11:22	03/22/16 14:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.5	10.0	1	03/22/16 11:22	03/22/16 14:46	99-87-6	
Methylene Chloride	ND	ug/kg	230	17.1	1	03/22/16 11:22	03/22/16 14:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	288	73.2	1	03/22/16 11:22	03/22/16 14:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.5	10.8	1	03/22/16 11:22	03/22/16 14:46	1634-04-4	
Naphthalene	ND	ug/kg	230	83.0	1	03/22/16 11:22	03/22/16 14:46	91-20-3	
n-Propylbenzene	ND	ug/kg	57.5	12.3	1	03/22/16 11:22	03/22/16 14:46	103-65-1	
Styrene	ND	ug/kg	57.5	9.1	1	03/22/16 11:22	03/22/16 14:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	230	11.1	1	03/22/16 11:22	03/22/16 14:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.5	11.0	1	03/22/16 11:22	03/22/16 14:46	79-34-5	
Tetrachloroethene	**130**	ug/kg	57.5	11.9	1	03/22/16 11:22	03/22/16 14:46	127-18-4	
Tetrahydrofuran	ND	ug/kg	2300	91.0	1	03/22/16 11:22	03/22/16 14:46	109-99-9	
Toluene	ND	ug/kg	57.5	11.0	1	03/22/16 11:22	03/22/16 14:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.5	22.3	1	03/22/16 11:22	03/22/16 14:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.5	10.5	1	03/22/16 11:22	03/22/16 14:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.5	11.2	1	03/22/16 11:22	03/22/16 14:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.5	15.8	1	03/22/16 11:22	03/22/16 14:46	79-00-5	
Trichloroethene	ND	ug/kg	57.5	13.9	1	03/22/16 11:22	03/22/16 14:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	230	39.8	1	03/22/16 11:22	03/22/16 14:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	230	15.9	1	03/22/16 11:22	03/22/16 14:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	230	13.6	1	03/22/16 11:22	03/22/16 14:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.5	11.5	1	03/22/16 11:22	03/22/16 14:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.5	11.1	1	03/22/16 11:22	03/22/16 14:46	108-67-8	
Vinyl chloride	ND	ug/kg	23.0	10.3	1	03/22/16 11:22	03/22/16 14:46	75-01-4	
Xylene (Total)	ND	ug/kg	173	34.4	1	03/22/16 11:22	03/22/16 14:46	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-129		1	03/22/16 11:22	03/22/16 14:46	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 14:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	03/22/16 11:22	03/22/16 14:46	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-76 **Lab ID: 10342030007** Collected: 03/15/16 14:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.8**	%	0.10	0.10	1		03/24/16 16:22		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	255	1	03/22/16 11:22	03/22/16 15:03	67-64-1	
Allyl chloride	ND	ug/kg	228	13.9	1	03/22/16 11:22	03/22/16 15:03	107-05-1	
Benzene	ND	ug/kg	22.8	8.0	1	03/22/16 11:22	03/22/16 15:03	71-43-2	
Bromobenzene	ND	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 15:03	108-86-1	
Bromochloromethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 15:03	74-97-5	
Bromodichloromethane	ND	ug/kg	228	10.1	1	03/22/16 11:22	03/22/16 15:03	75-27-4	
Bromoform	ND	ug/kg	569	13.5	1	03/22/16 11:22	03/22/16 15:03	75-25-2	
Bromomethane	ND	ug/kg	569	99.9	1	03/22/16 11:22	03/22/16 15:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	284	94.4	1	03/22/16 11:22	03/22/16 15:03	78-93-3	
n-Butylbenzene	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 15:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.9	11.6	1	03/22/16 11:22	03/22/16 15:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.9	15.2	1	03/22/16 11:22	03/22/16 15:03	98-06-6	
Carbon tetrachloride	ND	ug/kg	228	13.8	1	03/22/16 11:22	03/22/16 15:03	56-23-5	
Chlorobenzene	ND	ug/kg	56.9	9.2	1	03/22/16 11:22	03/22/16 15:03	108-90-7	
Chloroethane	ND	ug/kg	569	27.2	1	03/22/16 11:22	03/22/16 15:03	75-00-3	
Chloroform	ND	ug/kg	56.9	9.5	1	03/22/16 11:22	03/22/16 15:03	67-66-3	
Chloromethane	ND	ug/kg	228	11.5	1	03/22/16 11:22	03/22/16 15:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.9	11.7	1	03/22/16 11:22	03/22/16 15:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 15:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	569	44.0	1	03/22/16 11:22	03/22/16 15:03	96-12-8	
Dibromochloromethane	ND	ug/kg	228	8.8	1	03/22/16 11:22	03/22/16 15:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.9	9.1	1	03/22/16 11:22	03/22/16 15:03	106-93-4	
Dibromomethane	ND	ug/kg	56.9	13.4	1	03/22/16 11:22	03/22/16 15:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 15:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.9	13.9	1	03/22/16 11:22	03/22/16 15:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.9	12.1	1	03/22/16 11:22	03/22/16 15:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	14.0	1	03/22/16 11:22	03/22/16 15:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.9	12.7	1	03/22/16 11:22	03/22/16 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.9	13.0	1	03/22/16 11:22	03/22/16 15:03	75-35-4	
cis-1,2-Dichloroethene	**409**	ug/kg	56.9	20.3	1	03/22/16 11:22	03/22/16 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.9	9.3	1	03/22/16 11:22	03/22/16 15:03	156-60-5	
Dichlorofluoromethane	ND	ug/kg	569	53.5	1	03/22/16 11:22	03/22/16 15:03	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.9	11.6	1	03/22/16 11:22	03/22/16 15:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.9	8.9	1	03/22/16 11:22	03/22/16 15:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	23.0	1	03/22/16 11:22	03/22/16 15:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.9	11.4	1	03/22/16 11:22	03/22/16 15:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	228	5.9	1	03/22/16 11:22	03/22/16 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	569	22.1	1	03/22/16 11:22	03/22/16 15:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	18.5	1	03/22/16 11:22	03/22/16 15:03	60-29-7	
Ethylbenzene	ND	ug/kg	56.9	8.5	1	03/22/16 11:22	03/22/16 15:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	284	24.2	1	03/22/16 11:22	03/22/16 15:03	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-76 **Lab ID: 10342030007** Collected: 03/15/16 14:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.9	10.3	1	03/22/16 11:22	03/22/16 15:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.9	9.9	1	03/22/16 11:22	03/22/16 15:03	99-87-6	
Methylene Chloride	ND	ug/kg	228	17.0	1	03/22/16 11:22	03/22/16 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	284	72.4	1	03/22/16 11:22	03/22/16 15:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 15:03	1634-04-4	
Naphthalene	ND	ug/kg	228	82.0	1	03/22/16 11:22	03/22/16 15:03	91-20-3	
n-Propylbenzene	ND	ug/kg	56.9	12.2	1	03/22/16 11:22	03/22/16 15:03	103-65-1	
Styrene	ND	ug/kg	56.9	9.0	1	03/22/16 11:22	03/22/16 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	228	10.9	1	03/22/16 11:22	03/22/16 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 15:03	79-34-5	
Tetrachloroethene	**3020**	ug/kg	56.9	11.7	1	03/22/16 11:22	03/22/16 15:03	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	90.0	1	03/22/16 11:22	03/22/16 15:03	109-99-9	
Toluene	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 15:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.9	22.1	1	03/22/16 11:22	03/22/16 15:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.9	10.4	1	03/22/16 11:22	03/22/16 15:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.9	11.1	1	03/22/16 11:22	03/22/16 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.9	15.6	1	03/22/16 11:22	03/22/16 15:03	79-00-5	
Trichloroethene	**310**	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	39.4	1	03/22/16 11:22	03/22/16 15:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	15.7	1	03/22/16 11:22	03/22/16 15:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	13.4	1	03/22/16 11:22	03/22/16 15:03	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.9	11.4	1	03/22/16 11:22	03/22/16 15:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.9	11.0	1	03/22/16 11:22	03/22/16 15:03	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	10.2	1	03/22/16 11:22	03/22/16 15:03	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.0	1	03/22/16 11:22	03/22/16 15:03	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/22/16 11:22	03/22/16 15:03	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 15:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/22/16 11:22	03/22/16 15:03	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-78 **Lab ID: 10342030008** Collected: 03/15/16 14:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.4**	%	0.10	0.10	1		03/24/16 16:23		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	267	1	03/22/16 11:22	03/22/16 15:19	67-64-1	
Allyl chloride	ND	ug/kg	238	14.5	1	03/22/16 11:22	03/22/16 15:19	107-05-1	
Benzene	ND	ug/kg	23.8	8.3	1	03/22/16 11:22	03/22/16 15:19	71-43-2	
Bromobenzene	ND	ug/kg	59.5	14.4	1	03/22/16 11:22	03/22/16 15:19	108-86-1	
Bromochloromethane	ND	ug/kg	59.5	11.4	1	03/22/16 11:22	03/22/16 15:19	74-97-5	
Bromodichloromethane	ND	ug/kg	238	10.6	1	03/22/16 11:22	03/22/16 15:19	75-27-4	
Bromoform	ND	ug/kg	595	14.2	1	03/22/16 11:22	03/22/16 15:19	75-25-2	
Bromomethane	ND	ug/kg	595	105	1	03/22/16 11:22	03/22/16 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	298	98.8	1	03/22/16 11:22	03/22/16 15:19	78-93-3	
n-Butylbenzene	ND	ug/kg	59.5	11.2	1	03/22/16 11:22	03/22/16 15:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.5	12.1	1	03/22/16 11:22	03/22/16 15:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.5	16.0	1	03/22/16 11:22	03/22/16 15:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	238	14.4	1	03/22/16 11:22	03/22/16 15:19	56-23-5	
Chlorobenzene	ND	ug/kg	59.5	9.7	1	03/22/16 11:22	03/22/16 15:19	108-90-7	
Chloroethane	ND	ug/kg	595	28.5	1	03/22/16 11:22	03/22/16 15:19	75-00-3	
Chloroform	ND	ug/kg	59.5	10	1	03/22/16 11:22	03/22/16 15:19	67-66-3	
Chloromethane	ND	ug/kg	238	12.0	1	03/22/16 11:22	03/22/16 15:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.5	12.3	1	03/22/16 11:22	03/22/16 15:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.5	11.2	1	03/22/16 11:22	03/22/16 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	595	46.1	1	03/22/16 11:22	03/22/16 15:19	96-12-8	
Dibromochloromethane	ND	ug/kg	238	9.2	1	03/22/16 11:22	03/22/16 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.5	9.6	1	03/22/16 11:22	03/22/16 15:19	106-93-4	
Dibromomethane	ND	ug/kg	59.5	14.0	1	03/22/16 11:22	03/22/16 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.5	14.4	1	03/22/16 11:22	03/22/16 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.5	14.5	1	03/22/16 11:22	03/22/16 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.5	12.6	1	03/22/16 11:22	03/22/16 15:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	14.6	1	03/22/16 11:22	03/22/16 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.5	11.4	1	03/22/16 11:22	03/22/16 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.5	13.3	1	03/22/16 11:22	03/22/16 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.5	13.6	1	03/22/16 11:22	03/22/16 15:19	75-35-4	
cis-1,2-Dichloroethene	**112**	ug/kg	59.5	21.2	1	03/22/16 11:22	03/22/16 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.5	9.8	1	03/22/16 11:22	03/22/16 15:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	595	56.0	1	03/22/16 11:22	03/22/16 15:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.5	12.1	1	03/22/16 11:22	03/22/16 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.5	9.3	1	03/22/16 11:22	03/22/16 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	238	24.1	1	03/22/16 11:22	03/22/16 15:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.5	11.9	1	03/22/16 11:22	03/22/16 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	238	6.2	1	03/22/16 11:22	03/22/16 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	595	23.1	1	03/22/16 11:22	03/22/16 15:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	238	19.4	1	03/22/16 11:22	03/22/16 15:19	60-29-7	
Ethylbenzene	ND	ug/kg	59.5	8.9	1	03/22/16 11:22	03/22/16 15:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	298	25.4	1	03/22/16 11:22	03/22/16 15:19	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-78 **Lab ID: 10342030008** Collected: 03/15/16 14:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.5	10.8	1	03/22/16 11:22	03/22/16 15:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.5	10.4	1	03/22/16 11:22	03/22/16 15:19	99-87-6	
Methylene Chloride	ND	ug/kg	238	17.7	1	03/22/16 11:22	03/22/16 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	298	75.7	1	03/22/16 11:22	03/22/16 15:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.5	11.2	1	03/22/16 11:22	03/22/16 15:19	1634-04-4	
Naphthalene	ND	ug/kg	238	85.8	1	03/22/16 11:22	03/22/16 15:19	91-20-3	
n-Propylbenzene	ND	ug/kg	59.5	12.7	1	03/22/16 11:22	03/22/16 15:19	103-65-1	
Styrene	ND	ug/kg	59.5	9.5	1	03/22/16 11:22	03/22/16 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	238	11.4	1	03/22/16 11:22	03/22/16 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.5	11.4	1	03/22/16 11:22	03/22/16 15:19	79-34-5	
Tetrachloroethene	**170**	ug/kg	59.5	12.3	1	03/22/16 11:22	03/22/16 15:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2380	94.2	1	03/22/16 11:22	03/22/16 15:19	109-99-9	
Toluene	ND	ug/kg	59.5	11.4	1	03/22/16 11:22	03/22/16 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.5	23.1	1	03/22/16 11:22	03/22/16 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.5	10.8	1	03/22/16 11:22	03/22/16 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.5	11.6	1	03/22/16 11:22	03/22/16 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.5	16.3	1	03/22/16 11:22	03/22/16 15:19	79-00-5	
Trichloroethene	ND	ug/kg	59.5	14.4	1	03/22/16 11:22	03/22/16 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	238	41.2	1	03/22/16 11:22	03/22/16 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	238	16.4	1	03/22/16 11:22	03/22/16 15:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	238	14.0	1	03/22/16 11:22	03/22/16 15:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.5	11.9	1	03/22/16 11:22	03/22/16 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.5	11.5	1	03/22/16 11:22	03/22/16 15:19	108-67-8	
Vinyl chloride	ND	ug/kg	23.8	10.7	1	03/22/16 11:22	03/22/16 15:19	75-01-4	
Xylene (Total)	ND	ug/kg	179	35.6	1	03/22/16 11:22	03/22/16 15:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-129		1	03/22/16 11:22	03/22/16 15:19	17060-07-0	C0
Toluene-d8 (S)	100	%.	75-125		1	03/22/16 11:22	03/22/16 15:19	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/22/16 11:22	03/22/16 15:19	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-93 **Lab ID: 10342030009** Collected: 03/15/16 15:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.5**	%	0.10	0.10	1		03/24/16 16:23		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	262	1	03/22/16 11:22	03/22/16 15:36	67-64-1	
Allyl chloride	ND	ug/kg	234	14.3	1	03/22/16 11:22	03/22/16 15:36	107-05-1	
Benzene	ND	ug/kg	23.4	8.2	1	03/22/16 11:22	03/22/16 15:36	71-43-2	
Bromobenzene	ND	ug/kg	58.5	14.1	1	03/22/16 11:22	03/22/16 15:36	108-86-1	
Bromochloromethane	ND	ug/kg	58.5	11.2	1	03/22/16 11:22	03/22/16 15:36	74-97-5	
Bromodichloromethane	ND	ug/kg	234	10.4	1	03/22/16 11:22	03/22/16 15:36	75-27-4	
Bromoform	ND	ug/kg	585	13.9	1	03/22/16 11:22	03/22/16 15:36	75-25-2	
Bromomethane	ND	ug/kg	585	103	1	03/22/16 11:22	03/22/16 15:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	97.0	1	03/22/16 11:22	03/22/16 15:36	78-93-3	
n-Butylbenzene	ND	ug/kg	58.5	11.0	1	03/22/16 11:22	03/22/16 15:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.5	11.9	1	03/22/16 11:22	03/22/16 15:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.5	15.7	1	03/22/16 11:22	03/22/16 15:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	234	14.1	1	03/22/16 11:22	03/22/16 15:36	56-23-5	
Chlorobenzene	ND	ug/kg	58.5	9.5	1	03/22/16 11:22	03/22/16 15:36	108-90-7	
Chloroethane	ND	ug/kg	585	27.9	1	03/22/16 11:22	03/22/16 15:36	75-00-3	
Chloroform	ND	ug/kg	58.5	9.8	1	03/22/16 11:22	03/22/16 15:36	67-66-3	
Chloromethane	ND	ug/kg	234	11.8	1	03/22/16 11:22	03/22/16 15:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.5	12.0	1	03/22/16 11:22	03/22/16 15:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.5	11.0	1	03/22/16 11:22	03/22/16 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	585	45.2	1	03/22/16 11:22	03/22/16 15:36	96-12-8	
Dibromochloromethane	ND	ug/kg	234	9.0	1	03/22/16 11:22	03/22/16 15:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.5	9.4	1	03/22/16 11:22	03/22/16 15:36	106-93-4	
Dibromomethane	ND	ug/kg	58.5	13.8	1	03/22/16 11:22	03/22/16 15:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.5	14.1	1	03/22/16 11:22	03/22/16 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.5	14.3	1	03/22/16 11:22	03/22/16 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.5	12.4	1	03/22/16 11:22	03/22/16 15:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	234	14.4	1	03/22/16 11:22	03/22/16 15:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.5	11.2	1	03/22/16 11:22	03/22/16 15:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.5	13.1	1	03/22/16 11:22	03/22/16 15:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.5	13.3	1	03/22/16 11:22	03/22/16 15:36	75-35-4	
cis-1,2-Dichloroethene	**262**	ug/kg	58.5	20.8	1	03/22/16 11:22	03/22/16 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.5	9.6	1	03/22/16 11:22	03/22/16 15:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	585	54.9	1	03/22/16 11:22	03/22/16 15:36	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.5	11.9	1	03/22/16 11:22	03/22/16 15:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.5	9.2	1	03/22/16 11:22	03/22/16 15:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	234	23.6	1	03/22/16 11:22	03/22/16 15:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.5	11.7	1	03/22/16 11:22	03/22/16 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	234	6.1	1	03/22/16 11:22	03/22/16 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	585	22.7	1	03/22/16 11:22	03/22/16 15:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	234	19.1	1	03/22/16 11:22	03/22/16 15:36	60-29-7	
Ethylbenzene	ND	ug/kg	58.5	8.7	1	03/22/16 11:22	03/22/16 15:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/22/16 11:22	03/22/16 15:36	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B23-5-93 **Lab ID: 10342030009** Collected: 03/15/16 15:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.5	10.6	1	03/22/16 11:22	03/22/16 15:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.5	10.2	1	03/22/16 11:22	03/22/16 15:36	99-87-6	
Methylene Chloride	ND	ug/kg	234	17.4	1	03/22/16 11:22	03/22/16 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.3	1	03/22/16 11:22	03/22/16 15:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.5	11.0	1	03/22/16 11:22	03/22/16 15:36	1634-04-4	
Naphthalene	ND	ug/kg	234	84.3	1	03/22/16 11:22	03/22/16 15:36	91-20-3	
n-Propylbenzene	ND	ug/kg	58.5	12.5	1	03/22/16 11:22	03/22/16 15:36	103-65-1	
Styrene	ND	ug/kg	58.5	9.3	1	03/22/16 11:22	03/22/16 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	234	11.2	1	03/22/16 11:22	03/22/16 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.5	11.2	1	03/22/16 11:22	03/22/16 15:36	79-34-5	
Tetrachloroethene	**69.0**	ug/kg	58.5	12.0	1	03/22/16 11:22	03/22/16 15:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2340	92.5	1	03/22/16 11:22	03/22/16 15:36	109-99-9	
Toluene	ND	ug/kg	58.5	11.2	1	03/22/16 11:22	03/22/16 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.5	22.7	1	03/22/16 11:22	03/22/16 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.5	10.6	1	03/22/16 11:22	03/22/16 15:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.5	11.4	1	03/22/16 11:22	03/22/16 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.5	16.0	1	03/22/16 11:22	03/22/16 15:36	79-00-5	
Trichloroethene	ND	ug/kg	58.5	14.1	1	03/22/16 11:22	03/22/16 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	234	40.4	1	03/22/16 11:22	03/22/16 15:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	234	16.1	1	03/22/16 11:22	03/22/16 15:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	234	13.8	1	03/22/16 11:22	03/22/16 15:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.5	11.7	1	03/22/16 11:22	03/22/16 15:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.5	11.3	1	03/22/16 11:22	03/22/16 15:36	108-67-8	
Vinyl chloride	ND	ug/kg	23.4	10.5	1	03/22/16 11:22	03/22/16 15:36	75-01-4	
Xylene (Total)	ND	ug/kg	175	35.0	1	03/22/16 11:22	03/22/16 15:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-129		1	03/22/16 11:22	03/22/16 15:36	17060-07-0	C0
Toluene-d8 (S)	100	%.	75-125		1	03/22/16 11:22	03/22/16 15:36	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/22/16 11:22	03/22/16 15:36	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-53 **Lab ID: 10342030010** Collected: 03/17/16 10:30 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.3**	%	0.10	0.10	1		03/24/16 16:23		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	256	1	03/22/16 11:22	03/22/16 15:52	67-64-1	
Allyl chloride	ND	ug/kg	229	13.9	1	03/22/16 11:22	03/22/16 15:52	107-05-1	
Benzene	ND	ug/kg	22.9	8.0	1	03/22/16 11:22	03/22/16 15:52	71-43-2	
Bromobenzene	ND	ug/kg	57.1	13.8	1	03/22/16 11:22	03/22/16 15:52	108-86-1	
Bromochloromethane	ND	ug/kg	57.1	10.9	1	03/22/16 11:22	03/22/16 15:52	74-97-5	
Bromodichloromethane	ND	ug/kg	229	10.2	1	03/22/16 11:22	03/22/16 15:52	75-27-4	
Bromoform	ND	ug/kg	571	13.6	1	03/22/16 11:22	03/22/16 15:52	75-25-2	
Bromomethane	ND	ug/kg	571	100	1	03/22/16 11:22	03/22/16 15:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	286	94.9	1	03/22/16 11:22	03/22/16 15:52	78-93-3	
n-Butylbenzene	ND	ug/kg	57.1	10.7	1	03/22/16 11:22	03/22/16 15:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.1	11.7	1	03/22/16 11:22	03/22/16 15:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.1	15.3	1	03/22/16 11:22	03/22/16 15:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	229	13.8	1	03/22/16 11:22	03/22/16 15:52	56-23-5	
Chlorobenzene	ND	ug/kg	57.1	9.3	1	03/22/16 11:22	03/22/16 15:52	108-90-7	
Chloroethane	ND	ug/kg	571	27.3	1	03/22/16 11:22	03/22/16 15:52	75-00-3	
Chloroform	ND	ug/kg	57.1	9.6	1	03/22/16 11:22	03/22/16 15:52	67-66-3	
Chloromethane	ND	ug/kg	229	11.5	1	03/22/16 11:22	03/22/16 15:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.1	11.8	1	03/22/16 11:22	03/22/16 15:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.1	10.7	1	03/22/16 11:22	03/22/16 15:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	571	44.2	1	03/22/16 11:22	03/22/16 15:52	96-12-8	
Dibromochloromethane	ND	ug/kg	229	8.8	1	03/22/16 11:22	03/22/16 15:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.1	9.2	1	03/22/16 11:22	03/22/16 15:52	106-93-4	
Dibromomethane	ND	ug/kg	57.1	13.5	1	03/22/16 11:22	03/22/16 15:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.1	13.8	1	03/22/16 11:22	03/22/16 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.1	13.9	1	03/22/16 11:22	03/22/16 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.1	12.1	1	03/22/16 11:22	03/22/16 15:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	229	14.1	1	03/22/16 11:22	03/22/16 15:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.1	10.9	1	03/22/16 11:22	03/22/16 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.1	12.8	1	03/22/16 11:22	03/22/16 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.1	13.0	1	03/22/16 11:22	03/22/16 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.1	20.3	1	03/22/16 11:22	03/22/16 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.1	9.4	1	03/22/16 11:22	03/22/16 15:52	156-60-5	
Dichlorofluoromethane	ND	ug/kg	571	53.7	1	03/22/16 11:22	03/22/16 15:52	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.1	11.7	1	03/22/16 11:22	03/22/16 15:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.1	8.9	1	03/22/16 11:22	03/22/16 15:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	229	23.1	1	03/22/16 11:22	03/22/16 15:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.1	11.4	1	03/22/16 11:22	03/22/16 15:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	229	5.9	1	03/22/16 11:22	03/22/16 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	571	22.2	1	03/22/16 11:22	03/22/16 15:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	229	18.6	1	03/22/16 11:22	03/22/16 15:52	60-29-7	
Ethylbenzene	ND	ug/kg	57.1	8.5	1	03/22/16 11:22	03/22/16 15:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	286	24.3	1	03/22/16 11:22	03/22/16 15:52	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-53 **Lab ID: 10342030010** Collected: 03/17/16 10:30 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.1	10.4	1	03/22/16 11:22	03/22/16 15:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.1	10	1	03/22/16 11:22	03/22/16 15:52	99-87-6	
Methylene Chloride	ND	ug/kg	229	17.0	1	03/22/16 11:22	03/22/16 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	286	72.7	1	03/22/16 11:22	03/22/16 15:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.1	10.7	1	03/22/16 11:22	03/22/16 15:52	1634-04-4	
Naphthalene	ND	ug/kg	229	82.4	1	03/22/16 11:22	03/22/16 15:52	91-20-3	
n-Propylbenzene	ND	ug/kg	57.1	12.2	1	03/22/16 11:22	03/22/16 15:52	103-65-1	
Styrene	ND	ug/kg	57.1	9.1	1	03/22/16 11:22	03/22/16 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	229	11.0	1	03/22/16 11:22	03/22/16 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.1	10.9	1	03/22/16 11:22	03/22/16 15:52	79-34-5	
Tetrachloroethene	ND	ug/kg	57.1	11.8	1	03/22/16 11:22	03/22/16 15:52	127-18-4	
Tetrahydrofuran	ND	ug/kg	2290	90.4	1	03/22/16 11:22	03/22/16 15:52	109-99-9	
Toluene	ND	ug/kg	57.1	11.0	1	03/22/16 11:22	03/22/16 15:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.1	22.2	1	03/22/16 11:22	03/22/16 15:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.1	10.4	1	03/22/16 11:22	03/22/16 15:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.1	11.1	1	03/22/16 11:22	03/22/16 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.1	15.7	1	03/22/16 11:22	03/22/16 15:52	79-00-5	
Trichloroethene	ND	ug/kg	57.1	13.8	1	03/22/16 11:22	03/22/16 15:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	229	39.5	1	03/22/16 11:22	03/22/16 15:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	229	15.8	1	03/22/16 11:22	03/22/16 15:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	229	13.5	1	03/22/16 11:22	03/22/16 15:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.1	11.4	1	03/22/16 11:22	03/22/16 15:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.1	11.1	1	03/22/16 11:22	03/22/16 15:52	108-67-8	
Vinyl chloride	ND	ug/kg	22.9	10.3	1	03/22/16 11:22	03/22/16 15:52	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.2	1	03/22/16 11:22	03/22/16 15:52	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/22/16 11:22	03/22/16 15:52	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/22/16 11:22	03/22/16 15:52	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/22/16 11:22	03/22/16 15:52	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-57 **Lab ID: 10342030011** Collected: 03/17/16 10:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.0**	%	0.10	0.10	1		03/24/16 16:23		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	268	1	03/22/16 11:22	03/22/16 16:09	67-64-1	
Allyl chloride	ND	ug/kg	240	14.6	1	03/22/16 11:22	03/22/16 16:09	107-05-1	
Benzene	ND	ug/kg	24.0	8.4	1	03/22/16 11:22	03/22/16 16:09	71-43-2	
Bromobenzene	ND	ug/kg	59.9	14.5	1	03/22/16 11:22	03/22/16 16:09	108-86-1	
Bromochloromethane	ND	ug/kg	59.9	11.5	1	03/22/16 11:22	03/22/16 16:09	74-97-5	
Bromodichloromethane	ND	ug/kg	240	10.7	1	03/22/16 11:22	03/22/16 16:09	75-27-4	
Bromoform	ND	ug/kg	599	14.3	1	03/22/16 11:22	03/22/16 16:09	75-25-2	
Bromomethane	ND	ug/kg	599	105	1	03/22/16 11:22	03/22/16 16:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	299	99.4	1	03/22/16 11:22	03/22/16 16:09	78-93-3	
n-Butylbenzene	ND	ug/kg	59.9	11.3	1	03/22/16 11:22	03/22/16 16:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.9	12.2	1	03/22/16 11:22	03/22/16 16:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.9	16.1	1	03/22/16 11:22	03/22/16 16:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	240	14.5	1	03/22/16 11:22	03/22/16 16:09	56-23-5	
Chlorobenzene	ND	ug/kg	59.9	9.7	1	03/22/16 11:22	03/22/16 16:09	108-90-7	
Chloroethane	ND	ug/kg	599	28.6	1	03/22/16 11:22	03/22/16 16:09	75-00-3	
Chloroform	ND	ug/kg	59.9	10.0	1	03/22/16 11:22	03/22/16 16:09	67-66-3	
Chloromethane	ND	ug/kg	240	12.1	1	03/22/16 11:22	03/22/16 16:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.9	12.3	1	03/22/16 11:22	03/22/16 16:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.9	11.2	1	03/22/16 11:22	03/22/16 16:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	599	46.4	1	03/22/16 11:22	03/22/16 16:09	96-12-8	
Dibromochloromethane	ND	ug/kg	240	9.3	1	03/22/16 11:22	03/22/16 16:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.9	9.6	1	03/22/16 11:22	03/22/16 16:09	106-93-4	
Dibromomethane	ND	ug/kg	59.9	14.1	1	03/22/16 11:22	03/22/16 16:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.9	14.5	1	03/22/16 11:22	03/22/16 16:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.9	14.6	1	03/22/16 11:22	03/22/16 16:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.9	12.7	1	03/22/16 11:22	03/22/16 16:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	240	14.7	1	03/22/16 11:22	03/22/16 16:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.9	11.5	1	03/22/16 11:22	03/22/16 16:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.9	13.4	1	03/22/16 11:22	03/22/16 16:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.9	13.7	1	03/22/16 11:22	03/22/16 16:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.9	21.3	1	03/22/16 11:22	03/22/16 16:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.9	9.8	1	03/22/16 11:22	03/22/16 16:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	599	56.3	1	03/22/16 11:22	03/22/16 16:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.9	12.2	1	03/22/16 11:22	03/22/16 16:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.9	9.4	1	03/22/16 11:22	03/22/16 16:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	240	24.2	1	03/22/16 11:22	03/22/16 16:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.9	12.0	1	03/22/16 11:22	03/22/16 16:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	240	6.2	1	03/22/16 11:22	03/22/16 16:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	599	23.2	1	03/22/16 11:22	03/22/16 16:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	240	19.5	1	03/22/16 11:22	03/22/16 16:09	60-29-7	
Ethylbenzene	ND	ug/kg	59.9	9.0	1	03/22/16 11:22	03/22/16 16:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	299	25.5	1	03/22/16 11:22	03/22/16 16:09	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-57 **Lab ID: 10342030011** Collected: 03/17/16 10:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.9	10.9	1	03/22/16 11:22	03/22/16 16:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.9	10.5	1	03/22/16 11:22	03/22/16 16:09	99-87-6	
Methylene Chloride	ND	ug/kg	240	17.8	1	03/22/16 11:22	03/22/16 16:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	299	76.2	1	03/22/16 11:22	03/22/16 16:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.9	11.2	1	03/22/16 11:22	03/22/16 16:09	1634-04-4	
Naphthalene	ND	ug/kg	240	86.4	1	03/22/16 11:22	03/22/16 16:09	91-20-3	
n-Propylbenzene	ND	ug/kg	59.9	12.8	1	03/22/16 11:22	03/22/16 16:09	103-65-1	
Styrene	ND	ug/kg	59.9	9.5	1	03/22/16 11:22	03/22/16 16:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	240	11.5	1	03/22/16 11:22	03/22/16 16:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.9	11.5	1	03/22/16 11:22	03/22/16 16:09	79-34-5	
Tetrachloroethene	ND	ug/kg	59.9	12.3	1	03/22/16 11:22	03/22/16 16:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2400	94.8	1	03/22/16 11:22	03/22/16 16:09	109-99-9	
Toluene	ND	ug/kg	59.9	11.5	1	03/22/16 11:22	03/22/16 16:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.9	23.2	1	03/22/16 11:22	03/22/16 16:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.9	10.9	1	03/22/16 11:22	03/22/16 16:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.9	11.7	1	03/22/16 11:22	03/22/16 16:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.9	16.4	1	03/22/16 11:22	03/22/16 16:09	79-00-5	
Trichloroethene	ND	ug/kg	59.9	14.5	1	03/22/16 11:22	03/22/16 16:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	240	41.5	1	03/22/16 11:22	03/22/16 16:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	240	16.5	1	03/22/16 11:22	03/22/16 16:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	240	14.1	1	03/22/16 11:22	03/22/16 16:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.9	12.0	1	03/22/16 11:22	03/22/16 16:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.9	11.6	1	03/22/16 11:22	03/22/16 16:09	108-67-8	
Vinyl chloride	ND	ug/kg	24.0	10.8	1	03/22/16 11:22	03/22/16 16:09	75-01-4	
Xylene (Total)	ND	ug/kg	180	35.8	1	03/22/16 11:22	03/22/16 16:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-129		1	03/22/16 11:22	03/22/16 16:09	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/22/16 11:22	03/22/16 16:09	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/22/16 11:22	03/22/16 16:09	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-61 **Lab ID: 10342030012** Collected: 03/17/16 11:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**9.5**	%	0.10	0.10	1		03/24/16 16:24		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1140	255	1	03/22/16 11:22	03/22/16 16:25	67-64-1	
Allyl chloride	ND	ug/kg	228	13.9	1	03/22/16 11:22	03/22/16 16:25	107-05-1	
Benzene	ND	ug/kg	22.8	8.0	1	03/22/16 11:22	03/22/16 16:25	71-43-2	
Bromobenzene	ND	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 16:25	108-86-1	
Bromochloromethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 16:25	74-97-5	
Bromodichloromethane	ND	ug/kg	228	10.1	1	03/22/16 11:22	03/22/16 16:25	75-27-4	
Bromoform	ND	ug/kg	569	13.5	1	03/22/16 11:22	03/22/16 16:25	75-25-2	
Bromomethane	ND	ug/kg	569	99.9	1	03/22/16 11:22	03/22/16 16:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	94.5	1	03/22/16 11:22	03/22/16 16:25	78-93-3	
n-Butylbenzene	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 16:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.9	11.6	1	03/22/16 11:22	03/22/16 16:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.9	15.2	1	03/22/16 11:22	03/22/16 16:25	98-06-6	
Carbon tetrachloride	ND	ug/kg	228	13.8	1	03/22/16 11:22	03/22/16 16:25	56-23-5	
Chlorobenzene	ND	ug/kg	56.9	9.2	1	03/22/16 11:22	03/22/16 16:25	108-90-7	
Chloroethane	ND	ug/kg	569	27.2	1	03/22/16 11:22	03/22/16 16:25	75-00-3	
Chloroform	ND	ug/kg	56.9	9.5	1	03/22/16 11:22	03/22/16 16:25	67-66-3	
Chloromethane	ND	ug/kg	228	11.5	1	03/22/16 11:22	03/22/16 16:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.9	11.7	1	03/22/16 11:22	03/22/16 16:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 16:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	569	44.0	1	03/22/16 11:22	03/22/16 16:25	96-12-8	
Dibromochloromethane	ND	ug/kg	228	8.8	1	03/22/16 11:22	03/22/16 16:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.9	9.1	1	03/22/16 11:22	03/22/16 16:25	106-93-4	
Dibromomethane	ND	ug/kg	56.9	13.4	1	03/22/16 11:22	03/22/16 16:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 16:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.9	13.9	1	03/22/16 11:22	03/22/16 16:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.9	12.1	1	03/22/16 11:22	03/22/16 16:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	14.0	1	03/22/16 11:22	03/22/16 16:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 16:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.9	12.7	1	03/22/16 11:22	03/22/16 16:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.9	13.0	1	03/22/16 11:22	03/22/16 16:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.9	20.3	1	03/22/16 11:22	03/22/16 16:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.9	9.3	1	03/22/16 11:22	03/22/16 16:25	156-60-5	
Dichlorofluoromethane	ND	ug/kg	569	53.5	1	03/22/16 11:22	03/22/16 16:25	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.9	11.6	1	03/22/16 11:22	03/22/16 16:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.9	8.9	1	03/22/16 11:22	03/22/16 16:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	23.0	1	03/22/16 11:22	03/22/16 16:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.9	11.4	1	03/22/16 11:22	03/22/16 16:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	228	5.9	1	03/22/16 11:22	03/22/16 16:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	569	22.1	1	03/22/16 11:22	03/22/16 16:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	18.6	1	03/22/16 11:22	03/22/16 16:25	60-29-7	
Ethylbenzene	ND	ug/kg	56.9	8.5	1	03/22/16 11:22	03/22/16 16:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	24.2	1	03/22/16 11:22	03/22/16 16:25	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B39-5-61 **Lab ID: 10342030012** Collected: 03/17/16 11:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.9	10.3	1	03/22/16 11:22	03/22/16 16:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.9	9.9	1	03/22/16 11:22	03/22/16 16:25	99-87-6	
Methylene Chloride	ND	ug/kg	228	17.0	1	03/22/16 11:22	03/22/16 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	72.4	1	03/22/16 11:22	03/22/16 16:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.9	10.7	1	03/22/16 11:22	03/22/16 16:25	1634-04-4	
Naphthalene	ND	ug/kg	228	82.1	1	03/22/16 11:22	03/22/16 16:25	91-20-3	
n-Propylbenzene	ND	ug/kg	56.9	12.2	1	03/22/16 11:22	03/22/16 16:25	103-65-1	
Styrene	ND	ug/kg	56.9	9.0	1	03/22/16 11:22	03/22/16 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	228	10.9	1	03/22/16 11:22	03/22/16 16:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 16:25	79-34-5	
Tetrachloroethene	ND	ug/kg	56.9	11.7	1	03/22/16 11:22	03/22/16 16:25	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	90.0	1	03/22/16 11:22	03/22/16 16:25	109-99-9	
Toluene	ND	ug/kg	56.9	10.9	1	03/22/16 11:22	03/22/16 16:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.9	22.1	1	03/22/16 11:22	03/22/16 16:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.9	10.4	1	03/22/16 11:22	03/22/16 16:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.9	11.1	1	03/22/16 11:22	03/22/16 16:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.9	15.6	1	03/22/16 11:22	03/22/16 16:25	79-00-5	
Trichloroethene	ND	ug/kg	56.9	13.8	1	03/22/16 11:22	03/22/16 16:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	39.4	1	03/22/16 11:22	03/22/16 16:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	15.7	1	03/22/16 11:22	03/22/16 16:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	13.4	1	03/22/16 11:22	03/22/16 16:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.9	11.4	1	03/22/16 11:22	03/22/16 16:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.9	11.0	1	03/22/16 11:22	03/22/16 16:25	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	10.2	1	03/22/16 11:22	03/22/16 16:25	75-01-4	
Xylene (Total)	ND	ug/kg	171	34.1	1	03/22/16 11:22	03/22/16 16:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	116	%.	75-129		1	03/22/16 11:22	03/22/16 16:25	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 16:25	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	03/22/16 11:22	03/22/16 16:25	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-42 **Lab ID: 10342030013** Collected: 03/17/16 12:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**8.0**	%	0.10	0.10	1		03/24/16 16:24		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1050	235	1	03/22/16 11:22	03/22/16 16:42	67-64-1	
Allyl chloride	ND	ug/kg	210	12.8	1	03/22/16 11:22	03/22/16 16:42	107-05-1	
Benzene	ND	ug/kg	21.0	7.4	1	03/22/16 11:22	03/22/16 16:42	71-43-2	
Bromobenzene	ND	ug/kg	52.5	12.7	1	03/22/16 11:22	03/22/16 16:42	108-86-1	
Bromochloromethane	ND	ug/kg	52.5	10.1	1	03/22/16 11:22	03/22/16 16:42	74-97-5	
Bromodichloromethane	ND	ug/kg	210	9.4	1	03/22/16 11:22	03/22/16 16:42	75-27-4	
Bromoform	ND	ug/kg	525	12.5	1	03/22/16 11:22	03/22/16 16:42	75-25-2	
Bromomethane	ND	ug/kg	525	92.3	1	03/22/16 11:22	03/22/16 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	263	87.2	1	03/22/16 11:22	03/22/16 16:42	78-93-3	
n-Butylbenzene	ND	ug/kg	52.5	9.9	1	03/22/16 11:22	03/22/16 16:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.5	10.7	1	03/22/16 11:22	03/22/16 16:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.5	14.1	1	03/22/16 11:22	03/22/16 16:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	210	12.7	1	03/22/16 11:22	03/22/16 16:42	56-23-5	
Chlorobenzene	ND	ug/kg	52.5	8.5	1	03/22/16 11:22	03/22/16 16:42	108-90-7	
Chloroethane	ND	ug/kg	525	25.1	1	03/22/16 11:22	03/22/16 16:42	75-00-3	
Chloroform	ND	ug/kg	52.5	8.8	1	03/22/16 11:22	03/22/16 16:42	67-66-3	
Chloromethane	ND	ug/kg	210	10.6	1	03/22/16 11:22	03/22/16 16:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.5	10.8	1	03/22/16 11:22	03/22/16 16:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.5	9.9	1	03/22/16 11:22	03/22/16 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	525	40.7	1	03/22/16 11:22	03/22/16 16:42	96-12-8	
Dibromochloromethane	ND	ug/kg	210	8.1	1	03/22/16 11:22	03/22/16 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.5	8.4	1	03/22/16 11:22	03/22/16 16:42	106-93-4	
Dibromomethane	ND	ug/kg	52.5	12.4	1	03/22/16 11:22	03/22/16 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.5	12.7	1	03/22/16 11:22	03/22/16 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.5	12.8	1	03/22/16 11:22	03/22/16 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.5	11.1	1	03/22/16 11:22	03/22/16 16:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	210	12.9	1	03/22/16 11:22	03/22/16 16:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.5	10.0	1	03/22/16 11:22	03/22/16 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.5	11.8	1	03/22/16 11:22	03/22/16 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.5	12.0	1	03/22/16 11:22	03/22/16 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.5	18.7	1	03/22/16 11:22	03/22/16 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.5	8.6	1	03/22/16 11:22	03/22/16 16:42	156-60-5	
Dichlorofluoromethane	ND	ug/kg	525	49.4	1	03/22/16 11:22	03/22/16 16:42	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.5	10.7	1	03/22/16 11:22	03/22/16 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.5	8.2	1	03/22/16 11:22	03/22/16 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	210	21.2	1	03/22/16 11:22	03/22/16 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.5	10.5	1	03/22/16 11:22	03/22/16 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	210	5.5	1	03/22/16 11:22	03/22/16 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	525	20.4	1	03/22/16 11:22	03/22/16 16:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	210	17.1	1	03/22/16 11:22	03/22/16 16:42	60-29-7	
Ethylbenzene	ND	ug/kg	52.5	7.9	1	03/22/16 11:22	03/22/16 16:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	263	22.4	1	03/22/16 11:22	03/22/16 16:42	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-42 **Lab ID: 10342030013** Collected: 03/17/16 12:45 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.5	9.6	1	03/22/16 11:22	03/22/16 16:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.5	9.2	1	03/22/16 11:22	03/22/16 16:42	99-87-6	
Methylene Chloride	ND	ug/kg	210	15.7	1	03/22/16 11:22	03/22/16 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	263	66.8	1	03/22/16 11:22	03/22/16 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.5	9.8	1	03/22/16 11:22	03/22/16 16:42	1634-04-4	
Naphthalene	ND	ug/kg	210	75.8	1	03/22/16 11:22	03/22/16 16:42	91-20-3	
n-Propylbenzene	ND	ug/kg	52.5	11.2	1	03/22/16 11:22	03/22/16 16:42	103-65-1	
Styrene	ND	ug/kg	52.5	8.3	1	03/22/16 11:22	03/22/16 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	210	10.1	1	03/22/16 11:22	03/22/16 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.5	10.1	1	03/22/16 11:22	03/22/16 16:42	79-34-5	
Tetrachloroethene	ND	ug/kg	52.5	10.8	1	03/22/16 11:22	03/22/16 16:42	127-18-4	
Tetrahydrofuran	ND	ug/kg	2100	83.1	1	03/22/16 11:22	03/22/16 16:42	109-99-9	
Toluene	ND	ug/kg	52.5	10.1	1	03/22/16 11:22	03/22/16 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.5	20.4	1	03/22/16 11:22	03/22/16 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.5	9.6	1	03/22/16 11:22	03/22/16 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.5	10.2	1	03/22/16 11:22	03/22/16 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.5	14.4	1	03/22/16 11:22	03/22/16 16:42	79-00-5	
Trichloroethene	ND	ug/kg	52.5	12.7	1	03/22/16 11:22	03/22/16 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	210	36.4	1	03/22/16 11:22	03/22/16 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	210	14.5	1	03/22/16 11:22	03/22/16 16:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	210	12.4	1	03/22/16 11:22	03/22/16 16:42	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.5	10.5	1	03/22/16 11:22	03/22/16 16:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.5	10.2	1	03/22/16 11:22	03/22/16 16:42	108-67-8	
Vinyl chloride	ND	ug/kg	21.0	9.4	1	03/22/16 11:22	03/22/16 16:42	75-01-4	
Xylene (Total)	ND	ug/kg	158	31.4	1	03/22/16 11:22	03/22/16 16:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-129		1	03/22/16 11:22	03/22/16 16:42	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	03/22/16 11:22	03/22/16 16:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	03/22/16 11:22	03/22/16 16:42	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-49 **Lab ID: 10342030014** Collected: 03/17/16 13:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.6**	%	0.10	0.10	1		03/24/16 16:24		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	262	1	03/22/16 11:22	03/22/16 16:58	67-64-1	
Allyl chloride	ND	ug/kg	234	14.3	1	03/22/16 11:22	03/22/16 16:58	107-05-1	
Benzene	ND	ug/kg	23.4	8.2	1	03/22/16 11:22	03/22/16 16:58	71-43-2	
Bromobenzene	ND	ug/kg	58.6	14.2	1	03/22/16 11:22	03/22/16 16:58	108-86-1	
Bromochloromethane	ND	ug/kg	58.6	11.2	1	03/22/16 11:22	03/22/16 16:58	74-97-5	
Bromodichloromethane	ND	ug/kg	234	10.4	1	03/22/16 11:22	03/22/16 16:58	75-27-4	
Bromoform	ND	ug/kg	586	13.9	1	03/22/16 11:22	03/22/16 16:58	75-25-2	
Bromomethane	ND	ug/kg	586	103	1	03/22/16 11:22	03/22/16 16:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	293	97.2	1	03/22/16 11:22	03/22/16 16:58	78-93-3	
n-Butylbenzene	ND	ug/kg	58.6	11.0	1	03/22/16 11:22	03/22/16 16:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.6	11.9	1	03/22/16 11:22	03/22/16 16:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.6	15.7	1	03/22/16 11:22	03/22/16 16:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	234	14.2	1	03/22/16 11:22	03/22/16 16:58	56-23-5	
Chlorobenzene	ND	ug/kg	58.6	9.5	1	03/22/16 11:22	03/22/16 16:58	108-90-7	
Chloroethane	ND	ug/kg	586	28.0	1	03/22/16 11:22	03/22/16 16:58	75-00-3	
Chloroform	ND	ug/kg	58.6	9.8	1	03/22/16 11:22	03/22/16 16:58	67-66-3	
Chloromethane	ND	ug/kg	234	11.8	1	03/22/16 11:22	03/22/16 16:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.6	12.1	1	03/22/16 11:22	03/22/16 16:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.6	11.0	1	03/22/16 11:22	03/22/16 16:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	586	45.3	1	03/22/16 11:22	03/22/16 16:58	96-12-8	
Dibromochloromethane	ND	ug/kg	234	9.1	1	03/22/16 11:22	03/22/16 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.6	9.4	1	03/22/16 11:22	03/22/16 16:58	106-93-4	
Dibromomethane	ND	ug/kg	58.6	13.8	1	03/22/16 11:22	03/22/16 16:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.6	14.2	1	03/22/16 11:22	03/22/16 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.6	14.3	1	03/22/16 11:22	03/22/16 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.6	12.4	1	03/22/16 11:22	03/22/16 16:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	234	14.4	1	03/22/16 11:22	03/22/16 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.6	11.2	1	03/22/16 11:22	03/22/16 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.6	13.1	1	03/22/16 11:22	03/22/16 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.6	13.4	1	03/22/16 11:22	03/22/16 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.6	20.9	1	03/22/16 11:22	03/22/16 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.6	9.6	1	03/22/16 11:22	03/22/16 16:58	156-60-5	
Dichlorofluoromethane	ND	ug/kg	586	55.1	1	03/22/16 11:22	03/22/16 16:58	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.6	11.9	1	03/22/16 11:22	03/22/16 16:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.6	9.2	1	03/22/16 11:22	03/22/16 16:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	234	23.7	1	03/22/16 11:22	03/22/16 16:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.6	11.7	1	03/22/16 11:22	03/22/16 16:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	234	6.1	1	03/22/16 11:22	03/22/16 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	586	22.7	1	03/22/16 11:22	03/22/16 16:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	234	19.1	1	03/22/16 11:22	03/22/16 16:58	60-29-7	
Ethylbenzene	ND	ug/kg	58.6	8.8	1	03/22/16 11:22	03/22/16 16:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	293	25.0	1	03/22/16 11:22	03/22/16 16:58	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-49 **Lab ID: 10342030014** Collected: 03/17/16 13:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.6	10.6	1	03/22/16 11:22	03/22/16 16:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.6	10.2	1	03/22/16 11:22	03/22/16 16:58	99-87-6	
Methylene Chloride	ND	ug/kg	234	17.5	1	03/22/16 11:22	03/22/16 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	293	74.5	1	03/22/16 11:22	03/22/16 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.6	11.0	1	03/22/16 11:22	03/22/16 16:58	1634-04-4	
Naphthalene	ND	ug/kg	234	84.5	1	03/22/16 11:22	03/22/16 16:58	91-20-3	
n-Propylbenzene	ND	ug/kg	58.6	12.5	1	03/22/16 11:22	03/22/16 16:58	103-65-1	
Styrene	ND	ug/kg	58.6	9.3	1	03/22/16 11:22	03/22/16 16:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	234	11.3	1	03/22/16 11:22	03/22/16 16:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.6	11.2	1	03/22/16 11:22	03/22/16 16:58	79-34-5	
Tetrachloroethene	ND	ug/kg	58.6	12.1	1	03/22/16 11:22	03/22/16 16:58	127-18-4	
Tetrahydrofuran	ND	ug/kg	2340	92.7	1	03/22/16 11:22	03/22/16 16:58	109-99-9	
Toluene	ND	ug/kg	58.6	11.2	1	03/22/16 11:22	03/22/16 16:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.6	22.7	1	03/22/16 11:22	03/22/16 16:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.6	10.7	1	03/22/16 11:22	03/22/16 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.6	11.4	1	03/22/16 11:22	03/22/16 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.6	16.1	1	03/22/16 11:22	03/22/16 16:58	79-00-5	
Trichloroethene	ND	ug/kg	58.6	14.2	1	03/22/16 11:22	03/22/16 16:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	234	40.5	1	03/22/16 11:22	03/22/16 16:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	234	16.2	1	03/22/16 11:22	03/22/16 16:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	234	13.8	1	03/22/16 11:22	03/22/16 16:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.6	11.7	1	03/22/16 11:22	03/22/16 16:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.6	11.3	1	03/22/16 11:22	03/22/16 16:58	108-67-8	
Vinyl chloride	ND	ug/kg	23.4	10.5	1	03/22/16 11:22	03/22/16 16:58	75-01-4	
Xylene (Total)	ND	ug/kg	176	35.1	1	03/22/16 11:22	03/22/16 16:58	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-129		1	03/22/16 11:22	03/22/16 16:58	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 16:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/22/16 11:22	03/22/16 16:58	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-60 **Lab ID: 10342030015** Collected: 03/17/16 13:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**8.0**	%	0.10	0.10	1		03/24/16 16:24		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1100	247	1	03/22/16 11:22	03/22/16 17:15	67-64-1	
Allyl chloride	ND	ug/kg	221	13.5	1	03/22/16 11:22	03/22/16 17:15	107-05-1	
Benzene	ND	ug/kg	22.1	7.7	1	03/22/16 11:22	03/22/16 17:15	71-43-2	
Bromobenzene	ND	ug/kg	55.2	13.3	1	03/22/16 11:22	03/22/16 17:15	108-86-1	
Bromochloromethane	ND	ug/kg	55.2	10.6	1	03/22/16 11:22	03/22/16 17:15	74-97-5	
Bromodichloromethane	ND	ug/kg	221	9.8	1	03/22/16 11:22	03/22/16 17:15	75-27-4	
Bromoform	ND	ug/kg	552	13.1	1	03/22/16 11:22	03/22/16 17:15	75-25-2	
Bromomethane	ND	ug/kg	552	96.9	1	03/22/16 11:22	03/22/16 17:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	276	91.6	1	03/22/16 11:22	03/22/16 17:15	78-93-3	
n-Butylbenzene	ND	ug/kg	55.2	10.4	1	03/22/16 11:22	03/22/16 17:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.2	11.3	1	03/22/16 11:22	03/22/16 17:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.2	14.8	1	03/22/16 11:22	03/22/16 17:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	221	13.3	1	03/22/16 11:22	03/22/16 17:15	56-23-5	
Chlorobenzene	ND	ug/kg	55.2	8.9	1	03/22/16 11:22	03/22/16 17:15	108-90-7	
Chloroethane	ND	ug/kg	552	26.4	1	03/22/16 11:22	03/22/16 17:15	75-00-3	
Chloroform	ND	ug/kg	55.2	9.2	1	03/22/16 11:22	03/22/16 17:15	67-66-3	
Chloromethane	ND	ug/kg	221	11.1	1	03/22/16 11:22	03/22/16 17:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.2	11.4	1	03/22/16 11:22	03/22/16 17:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.2	10.4	1	03/22/16 11:22	03/22/16 17:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	552	42.7	1	03/22/16 11:22	03/22/16 17:15	96-12-8	
Dibromochloromethane	ND	ug/kg	221	8.5	1	03/22/16 11:22	03/22/16 17:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.2	8.9	1	03/22/16 11:22	03/22/16 17:15	106-93-4	
Dibromomethane	ND	ug/kg	55.2	13.0	1	03/22/16 11:22	03/22/16 17:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.2	13.3	1	03/22/16 11:22	03/22/16 17:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.2	13.5	1	03/22/16 11:22	03/22/16 17:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.2	11.7	1	03/22/16 11:22	03/22/16 17:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	221	13.6	1	03/22/16 11:22	03/22/16 17:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.2	10.5	1	03/22/16 11:22	03/22/16 17:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.2	12.4	1	03/22/16 11:22	03/22/16 17:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.2	12.6	1	03/22/16 11:22	03/22/16 17:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.2	19.6	1	03/22/16 11:22	03/22/16 17:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.2	9.1	1	03/22/16 11:22	03/22/16 17:15	156-60-5	
Dichlorofluoromethane	ND	ug/kg	552	51.8	1	03/22/16 11:22	03/22/16 17:15	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.2	11.3	1	03/22/16 11:22	03/22/16 17:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.2	8.6	1	03/22/16 11:22	03/22/16 17:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	221	22.3	1	03/22/16 11:22	03/22/16 17:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.2	11.0	1	03/22/16 11:22	03/22/16 17:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	221	5.7	1	03/22/16 11:22	03/22/16 17:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	552	21.4	1	03/22/16 11:22	03/22/16 17:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	221	18.0	1	03/22/16 11:22	03/22/16 17:15	60-29-7	
Ethylbenzene	ND	ug/kg	55.2	8.3	1	03/22/16 11:22	03/22/16 17:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	276	23.5	1	03/22/16 11:22	03/22/16 17:15	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B38-5-60 **Lab ID: 10342030015** Collected: 03/17/16 13:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	55.2	10.0	1	03/22/16 11:22	03/22/16 17:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.2	9.6	1	03/22/16 11:22	03/22/16 17:15	99-87-6	
Methylene Chloride	ND	ug/kg	221	16.4	1	03/22/16 11:22	03/22/16 17:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	276	70.2	1	03/22/16 11:22	03/22/16 17:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.2	10.3	1	03/22/16 11:22	03/22/16 17:15	1634-04-4	
Naphthalene	ND	ug/kg	221	79.5	1	03/22/16 11:22	03/22/16 17:15	91-20-3	
n-Propylbenzene	ND	ug/kg	55.2	11.8	1	03/22/16 11:22	03/22/16 17:15	103-65-1	
Styrene	ND	ug/kg	55.2	8.8	1	03/22/16 11:22	03/22/16 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	221	10.6	1	03/22/16 11:22	03/22/16 17:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.2	10.6	1	03/22/16 11:22	03/22/16 17:15	79-34-5	
Tetrachloroethene	ND	ug/kg	55.2	11.4	1	03/22/16 11:22	03/22/16 17:15	127-18-4	
Tetrahydrofuran	ND	ug/kg	2210	87.3	1	03/22/16 11:22	03/22/16 17:15	109-99-9	
Toluene	ND	ug/kg	55.2	10.6	1	03/22/16 11:22	03/22/16 17:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.2	21.4	1	03/22/16 11:22	03/22/16 17:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.2	10.0	1	03/22/16 11:22	03/22/16 17:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.2	10.7	1	03/22/16 11:22	03/22/16 17:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.2	15.1	1	03/22/16 11:22	03/22/16 17:15	79-00-5	
Trichloroethene	ND	ug/kg	55.2	13.3	1	03/22/16 11:22	03/22/16 17:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	221	38.2	1	03/22/16 11:22	03/22/16 17:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	221	15.2	1	03/22/16 11:22	03/22/16 17:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	221	13.0	1	03/22/16 11:22	03/22/16 17:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.2	11.0	1	03/22/16 11:22	03/22/16 17:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.2	10.7	1	03/22/16 11:22	03/22/16 17:15	108-67-8	
Vinyl chloride	ND	ug/kg	22.1	9.9	1	03/22/16 11:22	03/22/16 17:15	75-01-4	
Xylene (Total)	ND	ug/kg	165	33.0	1	03/22/16 11:22	03/22/16 17:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	75-129		1	03/22/16 11:22	03/22/16 17:15	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 17:15	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/22/16 11:22	03/22/16 17:15	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B37-5-45 **Lab ID: 10342030016** Collected: 03/17/16 14:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.3**	%	0.10	0.10	1		03/24/16 16:24		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1150	258	1	03/22/16 11:22	03/22/16 17:31	67-64-1	
Allyl chloride	ND	ug/kg	230	14.1	1	03/22/16 11:22	03/22/16 17:31	107-05-1	
Benzene	ND	ug/kg	23.0	8.1	1	03/22/16 11:22	03/22/16 17:31	71-43-2	
Bromobenzene	ND	ug/kg	57.6	13.9	1	03/22/16 11:22	03/22/16 17:31	108-86-1	
Bromochloromethane	ND	ug/kg	57.6	11.0	1	03/22/16 11:22	03/22/16 17:31	74-97-5	
Bromodichloromethane	ND	ug/kg	230	10.3	1	03/22/16 11:22	03/22/16 17:31	75-27-4	
Bromoform	ND	ug/kg	576	13.7	1	03/22/16 11:22	03/22/16 17:31	75-25-2	
Bromomethane	ND	ug/kg	576	101	1	03/22/16 11:22	03/22/16 17:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	288	95.6	1	03/22/16 11:22	03/22/16 17:31	78-93-3	
n-Butylbenzene	ND	ug/kg	57.6	10.8	1	03/22/16 11:22	03/22/16 17:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.6	11.7	1	03/22/16 11:22	03/22/16 17:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.6	15.4	1	03/22/16 11:22	03/22/16 17:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	230	13.9	1	03/22/16 11:22	03/22/16 17:31	56-23-5	
Chlorobenzene	ND	ug/kg	57.6	9.3	1	03/22/16 11:22	03/22/16 17:31	108-90-7	
Chloroethane	ND	ug/kg	576	27.5	1	03/22/16 11:22	03/22/16 17:31	75-00-3	
Chloroform	ND	ug/kg	57.6	9.6	1	03/22/16 11:22	03/22/16 17:31	67-66-3	
Chloromethane	ND	ug/kg	230	11.6	1	03/22/16 11:22	03/22/16 17:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.6	11.9	1	03/22/16 11:22	03/22/16 17:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.6	10.8	1	03/22/16 11:22	03/22/16 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	576	44.6	1	03/22/16 11:22	03/22/16 17:31	96-12-8	
Dibromochloromethane	ND	ug/kg	230	8.9	1	03/22/16 11:22	03/22/16 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.6	9.3	1	03/22/16 11:22	03/22/16 17:31	106-93-4	
Dibromomethane	ND	ug/kg	57.6	13.6	1	03/22/16 11:22	03/22/16 17:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.6	13.9	1	03/22/16 11:22	03/22/16 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.6	14.1	1	03/22/16 11:22	03/22/16 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.6	12.2	1	03/22/16 11:22	03/22/16 17:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	14.2	1	03/22/16 11:22	03/22/16 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.6	11.0	1	03/22/16 11:22	03/22/16 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.6	12.9	1	03/22/16 11:22	03/22/16 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.6	13.1	1	03/22/16 11:22	03/22/16 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.6	20.5	1	03/22/16 11:22	03/22/16 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.6	9.5	1	03/22/16 11:22	03/22/16 17:31	156-60-5	
Dichlorofluoromethane	ND	ug/kg	576	54.1	1	03/22/16 11:22	03/22/16 17:31	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.6	11.7	1	03/22/16 11:22	03/22/16 17:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.6	9.0	1	03/22/16 11:22	03/22/16 17:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	230	23.3	1	03/22/16 11:22	03/22/16 17:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.6	11.5	1	03/22/16 11:22	03/22/16 17:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	230	6.0	1	03/22/16 11:22	03/22/16 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	576	22.3	1	03/22/16 11:22	03/22/16 17:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	230	18.8	1	03/22/16 11:22	03/22/16 17:31	60-29-7	
Ethylbenzene	ND	ug/kg	57.6	8.6	1	03/22/16 11:22	03/22/16 17:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	288	24.5	1	03/22/16 11:22	03/22/16 17:31	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B37-5-45 **Lab ID: 10342030016** Collected: 03/17/16 14:15 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.6	10.5	1	03/22/16 11:22	03/22/16 17:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.6	10.1	1	03/22/16 11:22	03/22/16 17:31	99-87-6	
Methylene Chloride	ND	ug/kg	230	17.2	1	03/22/16 11:22	03/22/16 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	288	73.3	1	03/22/16 11:22	03/22/16 17:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.6	10.8	1	03/22/16 11:22	03/22/16 17:31	1634-04-4	
Naphthalene	ND	ug/kg	230	83.1	1	03/22/16 11:22	03/22/16 17:31	91-20-3	
n-Propylbenzene	ND	ug/kg	57.6	12.3	1	03/22/16 11:22	03/22/16 17:31	103-65-1	
Styrene	ND	ug/kg	57.6	9.1	1	03/22/16 11:22	03/22/16 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	230	11.1	1	03/22/16 11:22	03/22/16 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.6	11.0	1	03/22/16 11:22	03/22/16 17:31	79-34-5	
Tetrachloroethene	ND	ug/kg	57.6	11.9	1	03/22/16 11:22	03/22/16 17:31	127-18-4	
Tetrahydrofuran	ND	ug/kg	2300	91.1	1	03/22/16 11:22	03/22/16 17:31	109-99-9	
Toluene	ND	ug/kg	57.6	11.0	1	03/22/16 11:22	03/22/16 17:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.6	22.3	1	03/22/16 11:22	03/22/16 17:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.6	10.5	1	03/22/16 11:22	03/22/16 17:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.6	11.2	1	03/22/16 11:22	03/22/16 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.6	15.8	1	03/22/16 11:22	03/22/16 17:31	79-00-5	
Trichloroethene	ND	ug/kg	57.6	13.9	1	03/22/16 11:22	03/22/16 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	230	39.9	1	03/22/16 11:22	03/22/16 17:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	230	15.9	1	03/22/16 11:22	03/22/16 17:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	230	13.6	1	03/22/16 11:22	03/22/16 17:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.6	11.5	1	03/22/16 11:22	03/22/16 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.6	11.1	1	03/22/16 11:22	03/22/16 17:31	108-67-8	
Vinyl chloride	ND	ug/kg	23.0	10.4	1	03/22/16 11:22	03/22/16 17:31	75-01-4	
Xylene (Total)	ND	ug/kg	173	34.5	1	03/22/16 11:22	03/22/16 17:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	75-129		1	03/22/16 11:22	03/22/16 17:31	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	03/22/16 11:22	03/22/16 17:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	75-125		1	03/22/16 11:22	03/22/16 17:31	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B37-5-50 **Lab ID: 10342030017** Collected: 03/17/16 14:30 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.4**	%	0.10	0.10	1		03/24/16 16:25		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	264	1	03/22/16 11:22	03/22/16 17:48	67-64-1	
Allyl chloride	ND	ug/kg	236	14.4	1	03/22/16 11:22	03/22/16 17:48	107-05-1	
Benzene	ND	ug/kg	23.6	8.2	1	03/22/16 11:22	03/22/16 17:48	71-43-2	
Bromobenzene	ND	ug/kg	58.9	14.3	1	03/22/16 11:22	03/22/16 17:48	108-86-1	
Bromochloromethane	ND	ug/kg	58.9	11.3	1	03/22/16 11:22	03/22/16 17:48	74-97-5	
Bromodichloromethane	ND	ug/kg	236	10.5	1	03/22/16 11:22	03/22/16 17:48	75-27-4	
Bromoform	ND	ug/kg	589	14.0	1	03/22/16 11:22	03/22/16 17:48	75-25-2	
Bromomethane	ND	ug/kg	589	103	1	03/22/16 11:22	03/22/16 17:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	97.8	1	03/22/16 11:22	03/22/16 17:48	78-93-3	
n-Butylbenzene	ND	ug/kg	58.9	11.1	1	03/22/16 11:22	03/22/16 17:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.9	12.0	1	03/22/16 11:22	03/22/16 17:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.9	15.8	1	03/22/16 11:22	03/22/16 17:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	236	14.3	1	03/22/16 11:22	03/22/16 17:48	56-23-5	
Chlorobenzene	ND	ug/kg	58.9	9.6	1	03/22/16 11:22	03/22/16 17:48	108-90-7	
Chloroethane	ND	ug/kg	589	28.1	1	03/22/16 11:22	03/22/16 17:48	75-00-3	
Chloroform	ND	ug/kg	58.9	9.9	1	03/22/16 11:22	03/22/16 17:48	67-66-3	
Chloromethane	ND	ug/kg	236	11.9	1	03/22/16 11:22	03/22/16 17:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.9	12.1	1	03/22/16 11:22	03/22/16 17:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.9	11.1	1	03/22/16 11:22	03/22/16 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	589	45.6	1	03/22/16 11:22	03/22/16 17:48	96-12-8	
Dibromochloromethane	ND	ug/kg	236	9.1	1	03/22/16 11:22	03/22/16 17:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.9	9.5	1	03/22/16 11:22	03/22/16 17:48	106-93-4	
Dibromomethane	ND	ug/kg	58.9	13.9	1	03/22/16 11:22	03/22/16 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.9	14.3	1	03/22/16 11:22	03/22/16 17:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.9	14.4	1	03/22/16 11:22	03/22/16 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.9	12.5	1	03/22/16 11:22	03/22/16 17:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	236	14.5	1	03/22/16 11:22	03/22/16 17:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.9	11.3	1	03/22/16 11:22	03/22/16 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.9	13.2	1	03/22/16 11:22	03/22/16 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.9	13.4	1	03/22/16 11:22	03/22/16 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.9	21.0	1	03/22/16 11:22	03/22/16 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.9	9.7	1	03/22/16 11:22	03/22/16 17:48	156-60-5	
Dichlorofluoromethane	ND	ug/kg	589	55.4	1	03/22/16 11:22	03/22/16 17:48	75-43-4	CH,M1
1,2-Dichloropropane	ND	ug/kg	58.9	12.0	1	03/22/16 11:22	03/22/16 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.9	9.2	1	03/22/16 11:22	03/22/16 17:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	236	23.8	1	03/22/16 11:22	03/22/16 17:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.9	11.8	1	03/22/16 11:22	03/22/16 17:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	236	6.1	1	03/22/16 11:22	03/22/16 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	589	22.8	1	03/22/16 11:22	03/22/16 17:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	236	19.2	1	03/22/16 11:22	03/22/16 17:48	60-29-7	
Ethylbenzene	ND	ug/kg	58.9	8.8	1	03/22/16 11:22	03/22/16 17:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	25.1	1	03/22/16 11:22	03/22/16 17:48	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: B37-5-50 **Lab ID: 10342030017** Collected: 03/17/16 14:30 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.9	10.7	1	03/22/16 11:22	03/22/16 17:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.9	10.3	1	03/22/16 11:22	03/22/16 17:48	99-87-6	
Methylene Chloride	ND	ug/kg	236	17.5	1	03/22/16 11:22	03/22/16 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	74.9	1	03/22/16 11:22	03/22/16 17:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.9	11.0	1	03/22/16 11:22	03/22/16 17:48	1634-04-4	
Naphthalene	ND	ug/kg	236	84.9	1	03/22/16 11:22	03/22/16 17:48	91-20-3	
n-Propylbenzene	ND	ug/kg	58.9	12.6	1	03/22/16 11:22	03/22/16 17:48	103-65-1	
Styrene	ND	ug/kg	58.9	9.4	1	03/22/16 11:22	03/22/16 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	236	11.3	1	03/22/16 11:22	03/22/16 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.9	11.3	1	03/22/16 11:22	03/22/16 17:48	79-34-5	
Tetrachloroethene	ND	ug/kg	58.9	12.1	1	03/22/16 11:22	03/22/16 17:48	127-18-4	
Tetrahydrofuran	ND	ug/kg	2360	93.2	1	03/22/16 11:22	03/22/16 17:48	109-99-9	
Toluene	ND	ug/kg	58.9	11.3	1	03/22/16 11:22	03/22/16 17:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.9	22.8	1	03/22/16 11:22	03/22/16 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.9	10.7	1	03/22/16 11:22	03/22/16 17:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.9	11.5	1	03/22/16 11:22	03/22/16 17:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.9	16.1	1	03/22/16 11:22	03/22/16 17:48	79-00-5	
Trichloroethene	ND	ug/kg	58.9	14.3	1	03/22/16 11:22	03/22/16 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	236	40.8	1	03/22/16 11:22	03/22/16 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	236	16.3	1	03/22/16 11:22	03/22/16 17:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	236	13.9	1	03/22/16 11:22	03/22/16 17:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.9	11.8	1	03/22/16 11:22	03/22/16 17:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.9	11.4	1	03/22/16 11:22	03/22/16 17:48	108-67-8	
Vinyl chloride	ND	ug/kg	23.6	10.6	1	03/22/16 11:22	03/22/16 17:48	75-01-4	
Xylene (Total)	ND	ug/kg	177	35.2	1	03/22/16 11:22	03/22/16 17:48	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-129		1	03/22/16 11:22	03/22/16 17:48	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	03/22/16 11:22	03/22/16 17:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/22/16 11:22	03/22/16 17:48	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: Trip Blank-4 **Lab ID: 10342030018** Collected: 03/14/16 07:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1000	224	1	03/21/16 14:40	03/22/16 02:40	67-64-1	
Allyl chloride	ND	ug/kg	200	12.2	1	03/21/16 14:40	03/22/16 02:40	107-05-1	
Benzene	ND	ug/kg	20.0	7.0	1	03/21/16 14:40	03/22/16 02:40	71-43-2	
Bromobenzene	ND	ug/kg	50.0	12.1	1	03/21/16 14:40	03/22/16 02:40	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	9.6	1	03/21/16 14:40	03/22/16 02:40	74-97-5	
Bromodichloromethane	ND	ug/kg	200	8.9	1	03/21/16 14:40	03/22/16 02:40	75-27-4	
Bromoform	ND	ug/kg	500	11.9	1	03/21/16 14:40	03/22/16 02:40	75-25-2	
Bromomethane	ND	ug/kg	500	87.8	1	03/21/16 14:40	03/22/16 02:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	83.0	1	03/21/16 14:40	03/22/16 02:40	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	9.4	1	03/21/16 14:40	03/22/16 02:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	10.2	1	03/21/16 14:40	03/22/16 02:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	13.4	1	03/21/16 14:40	03/22/16 02:40	98-06-6	
Carbon tetrachloride	ND	ug/kg	200	12.1	1	03/21/16 14:40	03/22/16 02:40	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	8.1	1	03/21/16 14:40	03/22/16 02:40	108-90-7	
Chloroethane	ND	ug/kg	500	23.9	1	03/21/16 14:40	03/22/16 02:40	75-00-3	
Chloroform	ND	ug/kg	50.0	8.4	1	03/21/16 14:40	03/22/16 02:40	67-66-3	
Chloromethane	ND	ug/kg	200	10.1	1	03/21/16 14:40	03/22/16 02:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.3	1	03/21/16 14:40	03/22/16 02:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	9.4	1	03/21/16 14:40	03/22/16 02:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	38.7	1	03/21/16 14:40	03/22/16 02:40	96-12-8	
Dibromochloromethane	ND	ug/kg	200	7.7	1	03/21/16 14:40	03/22/16 02:40	124-48-1	L2
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	8.0	1	03/21/16 14:40	03/22/16 02:40	106-93-4	
Dibromomethane	ND	ug/kg	50.0	11.8	1	03/21/16 14:40	03/22/16 02:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	12.1	1	03/21/16 14:40	03/22/16 02:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	12.2	1	03/21/16 14:40	03/22/16 02:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	10.6	1	03/21/16 14:40	03/22/16 02:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	12.3	1	03/21/16 14:40	03/22/16 02:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	9.6	1	03/21/16 14:40	03/22/16 02:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.2	1	03/21/16 14:40	03/22/16 02:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	11.4	1	03/21/16 14:40	03/22/16 02:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	17.8	1	03/21/16 14:40	03/22/16 02:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	8.2	1	03/21/16 14:40	03/22/16 02:40	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	47.0	1	03/21/16 14:40	03/22/16 02:40	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	10.2	1	03/21/16 14:40	03/22/16 02:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	7.8	1	03/21/16 14:40	03/22/16 02:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	20.2	1	03/21/16 14:40	03/22/16 02:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.0	1	03/21/16 14:40	03/22/16 02:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	200	5.2	1	03/21/16 14:40	03/22/16 02:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	500	19.4	1	03/21/16 14:40	03/22/16 02:40	10061-02-6	L2
Diethyl ether (Ethyl ether)	ND	ug/kg	200	16.3	1	03/21/16 14:40	03/22/16 02:40	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	7.5	1	03/21/16 14:40	03/22/16 02:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	21.3	1	03/21/16 14:40	03/22/16 02:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	9.1	1	03/21/16 14:40	03/22/16 02:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	8.7	1	03/21/16 14:40	03/22/16 02:40	99-87-6	
Methylene Chloride	ND	ug/kg	200	14.9	1	03/21/16 14:40	03/22/16 02:40	75-09-2	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Sample: Trip Blank-4 **Lab ID: 10342030018** Collected: 03/14/16 07:00 Received: 03/18/16 13:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	63.6	1	03/21/16 14:40	03/22/16 02:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	9.4	1	03/21/16 14:40	03/22/16 02:40	1634-04-4	
Naphthalene	ND	ug/kg	200	72.1	1	03/21/16 14:40	03/22/16 02:40	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	10.7	1	03/21/16 14:40	03/22/16 02:40	103-65-1	
Styrene	ND	ug/kg	50.0	7.9	1	03/21/16 14:40	03/22/16 02:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	200	9.6	1	03/21/16 14:40	03/22/16 02:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/21/16 14:40	03/22/16 02:40	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	10.3	1	03/21/16 14:40	03/22/16 02:40	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	79.1	1	03/21/16 14:40	03/22/16 02:40	109-99-9	
Toluene	ND	ug/kg	50.0	9.6	1	03/21/16 14:40	03/22/16 02:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	19.4	1	03/21/16 14:40	03/22/16 02:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	03/21/16 14:40	03/22/16 02:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	9.7	1	03/21/16 14:40	03/22/16 02:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.7	1	03/21/16 14:40	03/22/16 02:40	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.1	1	03/21/16 14:40	03/22/16 02:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	34.6	1	03/21/16 14:40	03/22/16 02:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	13.8	1	03/21/16 14:40	03/22/16 02:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	11.8	1	03/21/16 14:40	03/22/16 02:40	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.0	1	03/21/16 14:40	03/22/16 02:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	9.7	1	03/21/16 14:40	03/22/16 02:40	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	9.0	1	03/21/16 14:40	03/22/16 02:40	75-01-4	
Xylene (Total)	ND	ug/kg	150	29.9	1	03/21/16 14:40	03/22/16 02:40	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	119	%.	75-129		1	03/21/16 14:40	03/22/16 02:40	17060-07-0	
Toluene-d8 (S)	103	%.	75-125		1	03/21/16 14:40	03/22/16 02:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/21/16 14:40	03/22/16 02:40	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

QC Batch: MPRP/62191 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10342030001, 10342030002, 10342030003, 10342030004, 10342030005, 10342030006, 10342030007, 10342030008, 10342030009, 10342030010, 10342030011, 10342030012, 10342030013, 10342030014, 10342030015, 10342030016, 10342030017

SAMPLE DUPLICATE: 2216575

Parameter	Units	10342022027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.8	23.6	8	30	

SAMPLE DUPLICATE: 2216621

Parameter	Units	10342030017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.8	5	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

QC Batch: MSV/34938 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10342030001, 10342030002, 10342030003, 10342030004, 10342030005, 10342030018

METHOD BLANK: 2214169 Matrix: Solid
Associated Lab Samples: 10342030001, 10342030002, 10342030003, 10342030004, 10342030005, 10342030018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	200	9.6	03/22/16 01:01	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/22/16 01:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/22/16 01:01	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/22/16 01:01	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/22/16 01:01	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/22/16 01:01	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/22/16 01:01	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/22/16 01:01	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/22/16 01:01	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/22/16 01:01	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/22/16 01:01	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/22/16 01:01	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/22/16 01:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/22/16 01:01	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/22/16 01:01	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/22/16 01:01	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/22/16 01:01	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/22/16 01:01	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/22/16 01:01	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/22/16 01:01	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/22/16 01:01	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/22/16 01:01	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/22/16 01:01	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/22/16 01:01	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/22/16 01:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/22/16 01:01	
Acetone	ug/kg	ND	1000	224	03/22/16 01:01	
Allyl chloride	ug/kg	ND	200	12.2	03/22/16 01:01	
Benzene	ug/kg	ND	20.0	7.0	03/22/16 01:01	
Bromobenzene	ug/kg	ND	50.0	12.1	03/22/16 01:01	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/22/16 01:01	
Bromodichloromethane	ug/kg	ND	200	8.9	03/22/16 01:01	
Bromoform	ug/kg	ND	500	11.9	03/22/16 01:01	
Bromomethane	ug/kg	ND	500	87.8	03/22/16 01:01	
Carbon tetrachloride	ug/kg	ND	200	12.1	03/22/16 01:01	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/22/16 01:01	
Chloroethane	ug/kg	ND	500	23.9	03/22/16 01:01	
Chloroform	ug/kg	ND	50.0	8.4	03/22/16 01:01	
Chloromethane	ug/kg	ND	200	10.1	03/22/16 01:01	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/22/16 01:01	
cis-1,3-Dichloropropene	ug/kg	ND	200	5.2	03/22/16 01:01	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

METHOD BLANK: 2214169 Matrix: Solid
Associated Lab Samples: 10342030001, 10342030002, 10342030003, 10342030004, 10342030005, 10342030018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/22/16 01:01	
Dibromomethane	ug/kg	ND	50.0	11.8	03/22/16 01:01	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/22/16 01:01	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/22/16 01:01	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/22/16 01:01	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/22/16 01:01	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/22/16 01:01	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/22/16 01:01	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/22/16 01:01	
Methylene Chloride	ug/kg	ND	200	14.9	03/22/16 01:01	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/22/16 01:01	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/22/16 01:01	
Naphthalene	ug/kg	ND	200	72.1	03/22/16 01:01	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/22/16 01:01	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/22/16 01:01	
Styrene	ug/kg	ND	50.0	7.9	03/22/16 01:01	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/22/16 01:01	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/22/16 01:01	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/22/16 01:01	
Toluene	ug/kg	ND	50.0	9.6	03/22/16 01:01	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/22/16 01:01	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/22/16 01:01	
Trichloroethene	ug/kg	ND	50.0	12.1	03/22/16 01:01	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/22/16 01:01	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/22/16 01:01	
Xylene (Total)	ug/kg	ND	150	29.9	03/22/16 01:01	
1,2-Dichloroethane-d4 (S)	%.	111	75-129		03/22/16 01:01	
4-Bromofluorobenzene (S)	%.	97	75-125		03/22/16 01:01	
Toluene-d8 (S)	%.	102	75-125		03/22/16 01:01	

LABORATORY CONTROL SAMPLE: 2214170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	706	71	71-127	
1,1,1-Trichloroethane	ug/kg	1000	780	78	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	778	78	50-138	
1,1,2-Trichloroethane	ug/kg	1000	769	77	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	744	74	53-144	
1,1-Dichloroethane	ug/kg	1000	772	77	61-134	
1,1-Dichloroethene	ug/kg	1000	762	76	57-135	
1,1-Dichloropropene	ug/kg	1000	789	79	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	742	74	32-150	
1,2,3-Trichloropropane	ug/kg	1000	707	71	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	722	72	38-138	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

LABORATORY CONTROL SAMPLE: 2214170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	823	82	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1410	56	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	756	76	69-130	
1,2-Dichlorobenzene	ug/kg	1000	745	75	72-125	
1,2-Dichloroethane	ug/kg	1000	736	74	62-125	
1,2-Dichloropropane	ug/kg	1000	753	75	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	817	82	71-129	
1,3-Dichlorobenzene	ug/kg	1000	757	76	72-126	
1,3-Dichloropropane	ug/kg	1000	766	77	70-125	
1,4-Dichlorobenzene	ug/kg	1000	748	75	70-126	
2,2-Dichloropropane	ug/kg	1000	628	63	48-134	
2-Butanone (MEK)	ug/kg	5000	3410	68	38-149	
2-Chlorotoluene	ug/kg	1000	770	77	71-129	
4-Chlorotoluene	ug/kg	1000	785	79	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3840	77	52-145	
Acetone	ug/kg	5000	4100	82	65-142	
Allyl chloride	ug/kg	1000	688	69	54-125	
Benzene	ug/kg	1000	775	78	64-125	
Bromobenzene	ug/kg	1000	740	74	70-125	
Bromochloromethane	ug/kg	1000	784	78	68-125	
Bromodichloromethane	ug/kg	1000	678	68	67-125	
Bromoform	ug/kg	1000	674	67	56-127	
Bromomethane	ug/kg	1000	920	92	34-137	
Carbon tetrachloride	ug/kg	1000	686	69	58-138	
Chlorobenzene	ug/kg	1000	765	77	72-125	
Chloroethane	ug/kg	1000	952	95	39-148	
Chloroform	ug/kg	1000	769	77	67-125	
Chloromethane	ug/kg	1000	671	67	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	752	75	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	649	65	62-127	
Dibromochloromethane	ug/kg	1000	627	63	67-125	L0
Dibromomethane	ug/kg	1000	718	72	63-129	
Dichlorodifluoromethane	ug/kg	1000	581	58	34-139	
Dichlorofluoromethane	ug/kg	1000	1440	144	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	948	95	51-125	
Ethylbenzene	ug/kg	1000	784	78	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	662	66	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	809	81	75-127	
Methyl-tert-butyl ether	ug/kg	1000	714	71	61-125	
Methylene Chloride	ug/kg	1000	708	71	60-126	
n-Butylbenzene	ug/kg	1000	789	79	67-125	
n-Propylbenzene	ug/kg	1000	811	81	72-133	
Naphthalene	ug/kg	1000	655	66	35-147	
p-Isopropyltoluene	ug/kg	1000	801	80	69-127	
sec-Butylbenzene	ug/kg	1000	807	81	70-127	
Styrene	ug/kg	1000	827	83	73-125	
tert-Butylbenzene	ug/kg	1000	794	79	71-130	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

LABORATORY CONTROL SAMPLE: 2214170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	772	77	66-135	
Tetrahydrofuran	ug/kg	10000	8920	89	66-145	
Toluene	ug/kg	1000	748	75	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	738	74	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	663	66	67-125	L0
Trichloroethene	ug/kg	1000	761	76	62-141	
Trichlorofluoromethane	ug/kg	1000	971	97	38-150	
Vinyl chloride	ug/kg	1000	710	71	57-131	
Xylene (Total)	ug/kg	3000	2420	81	73-128	
1,2-Dichloroethane-d4 (S)	%.			102	75-129	
4-Bromofluorobenzene (S)	%.			96	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214218 2214219

Parameter	Units	10341568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	2770	2760	3200	3180	116	115	59-135	1	30	
1,1,1-Trichloroethane	ug/kg	ND	2770	2760	3380	3500	122	127	51-137	3	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	2770	2760	3510	3350	127	121	40-149	5	30	
1,1,2-Trichloroethane	ug/kg	ND	2770	2760	3310	3290	119	119	54-144	1	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	2770	2760	2890	3140	104	114	41-150	8	30	
1,1-Dichloroethane	ug/kg	ND	2770	2760	3130	3300	113	119	53-131	5	30	
1,1-Dichloroethene	ug/kg	ND	2770	2760	3170	3420	115	124	41-133	7	30	
1,1-Dichloropropene	ug/kg	ND	2770	2760	3300	3480	119	126	50-139	5	30	
1,2,3-Trichlorobenzene	ug/kg	ND	2770	2760	3740	3640	135	132	52-150	3	30	
1,2,3-Trichloropropane	ug/kg	ND	2770	2760	3270	3270	118	118	61-137	0	30	
1,2,4-Trichlorobenzene	ug/kg	ND	2770	2760	3590	3530	130	128	52-142	2	30	
1,2,4-Trimethylbenzene	ug/kg	ND	2770	2760	3840	3850	139	139	56-142	0	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6920	6920	7610	7640	110	111	47-143	1	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	2770	2760	3510	3450	127	125	57-136	2	30	
1,2-Dichlorobenzene	ug/kg	ND	2770	2760	3460	3400	125	123	59-136	2	30	
1,2-Dichloroethane	ug/kg	ND	2770	2760	2990	3110	108	113	52-133	4	30	
1,2-Dichloropropane	ug/kg	ND	2770	2760	3290	3360	119	122	62-129	2	30	
1,3,5-Trimethylbenzene	ug/kg	ND	2770	2760	3720	3650	134	132	54-143	2	30	
1,3-Dichlorobenzene	ug/kg	ND	2770	2760	3460	3440	125	124	60-137	1	30	
1,3-Dichloropropane	ug/kg	ND	2770	2760	3310	3320	119	120	57-138	0	30	
1,4-Dichlorobenzene	ug/kg	ND	2770	2760	3350	3260	121	118	51-132	3	30	
2,2-Dichloropropane	ug/kg	ND	2770	2760	2650	2750	96	99	50-134	3	30	
2-Butanone (MEK)	ug/kg	ND	13900	13800	15700	15200	113	110	46-125	3	30	
2-Chlorotoluene	ug/kg	ND	2770	2760	3530	3480	128	126	60-141	2	30	
4-Chlorotoluene	ug/kg	ND	2770	2760	3570	3600	129	130	65-135	1	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	13900	13800	17900	18800	129	136	47-146	5	30	
Acetone	ug/kg	ND	13900	13800	20700	17500	136	114	45-148	17	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214218 2214219

Parameter	Units	10341568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/kg	ND	2770	2760	2890	3370	104	122	50-135	15	30	
Benzene	ug/kg	ND	2770	2760	3220	3290	116	119	41-134	2	30	
Bromobenzene	ug/kg	ND	2770	2760	3450	3310	124	120	59-134	4	30	
Bromochloromethane	ug/kg	ND	2770	2760	3260	3340	118	121	56-127	2	30	
Bromodichloromethane	ug/kg	ND	2770	2760	2950	2960	107	107	55-136	0	30	
Bromoform	ug/kg	ND	2770	2760	2970	2950	107	107	51-139	1	30	
Bromomethane	ug/kg	ND	2770	2760	2750	1630	99	59	35-148	51	30	R1
Carbon tetrachloride	ug/kg	ND	2770	2760	3000	3110	108	113	50-140	4	30	
Chlorobenzene	ug/kg	ND	2770	2760	3350	3300	121	119	59-133	1	30	
Chloroethane	ug/kg	ND	2770	2760	2700	1230J	98	44	30-150		30	
Chloroform	ug/kg	ND	2770	2760	3150	3320	113	119	58-128	5	30	
Chloromethane	ug/kg	ND	2770	2760	1770	860	64	31	38-125	69	30	M1,R1
cis-1,2-Dichloroethene	ug/kg	ND	2770	2760	3150	3260	114	118	59-125	3	30	
cis-1,3-Dichloropropene	ug/kg	ND	2770	2760	2960	3000	107	108	57-133	1	30	
Dibromochloromethane	ug/kg	ND	2770	2760	2910	2920	105	106	54-141	0	30	
Dibromomethane	ug/kg	ND	2770	2760	3360	3250	121	118	53-134	3	30	
Dichlorodifluoromethane	ug/kg	ND	2770	2760	1150	648	42	23	30-125	56	30	M1,R1
Dichlorofluoromethane	ug/kg	ND	2770	2760	4460	2270	161	82	30-150	65	30	M1,R1
Diethyl ether (Ethyl ether)	ug/kg	ND	2770	2760	4120	4310	149	156	46-137	5	30	M1
Ethylbenzene	ug/kg	ND	2770	2760	3550	3480	128	126	56-141	2	30	
Hexachloro-1,3-butadiene	ug/kg	ND	2770	2760	3410	3330	123	120	45-150	3	30	
Isopropylbenzene (Cumene)	ug/kg	ND	2770	2760	3780	3700	136	134	48-141	2	30	
Methyl-tert-butyl ether	ug/kg	ND	2770	2760	3020	3220	109	116	53-133	6	30	
Methylene Chloride	ug/kg	ND	2770	2760	2860	2970	101	105	42-135	4	30	
n-Butylbenzene	ug/kg	ND	2770	2760	3680	3760	133	136	52-140	2	30	
n-Propylbenzene	ug/kg	ND	2770	2760	3680	3630	133	131	57-142	1	30	
Naphthalene	ug/kg	ND	2770	2760	3490	3510	126	127	41-150	1	30	
p-Isopropyltoluene	ug/kg	ND	2770	2760	3890	3920	141	142	54-139	1	30	M1
sec-Butylbenzene	ug/kg	ND	2770	2760	3810	3850	138	139	30-150	1	30	
Styrene	ug/kg	ND	2770	2760	3770	3750	136	136	53-137	0	30	
tert-Butylbenzene	ug/kg	ND	2770	2760	3740	3740	135	135	59-138	0	30	
Tetrachloroethene	ug/kg	ND	2770	2760	3390	3270	122	118	53-138	4	30	
Tetrahydrofuran	ug/kg	ND	27700	27600	42300	40200	153	145	50-145	5	30	M1
Toluene	ug/kg	ND	2770	2760	3250	3240	117	117	55-134	0	30	
trans-1,2-Dichloroethene	ug/kg	ND	2770	2760	3110	3110	112	113	44-135	0	30	
trans-1,3-Dichloropropene	ug/kg	ND	2770	2760	3060	3090	110	112	59-139	1	30	
Trichloroethene	ug/kg	ND	2770	2760	3480	3570	126	129	52-143	3	30	
Trichlorofluoromethane	ug/kg	ND	2770	2760	3120	1480	113	54	30-150	71	30	R1
Vinyl chloride	ug/kg	ND	2770	2760	1940	941	70	34	36-127	69	30	M1,R1
Xylene (Total)	ug/kg	ND	8300	8300	10800	10900	130	132	56-137	1	30	
1,2-Dichloroethane-d4 (S)	%.						91	98	75-129			1M,C0
4-Bromofluorobenzene (S)	%.						99	100	75-125			
Toluene-d8 (S)	%.						99	101	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

QC Batch: MSV/34944 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10342030006, 10342030007, 10342030008, 10342030009, 10342030010, 10342030011, 10342030012, 10342030013, 10342030014, 10342030015, 10342030016, 10342030017

METHOD BLANK: 2214542 Matrix: Solid
Associated Lab Samples: 10342030006, 10342030007, 10342030008, 10342030009, 10342030010, 10342030011, 10342030012, 10342030013, 10342030014, 10342030015, 10342030016, 10342030017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	200	9.6	03/22/16 12:34	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/22/16 12:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/22/16 12:34	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/22/16 12:34	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/22/16 12:34	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/22/16 12:34	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/22/16 12:34	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/22/16 12:34	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/22/16 12:34	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/22/16 12:34	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/22/16 12:34	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/22/16 12:34	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/22/16 12:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/22/16 12:34	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/22/16 12:34	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/22/16 12:34	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/22/16 12:34	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/22/16 12:34	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/22/16 12:34	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/22/16 12:34	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/22/16 12:34	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/22/16 12:34	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/22/16 12:34	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/22/16 12:34	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/22/16 12:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/22/16 12:34	
Acetone	ug/kg	ND	1000	224	03/22/16 12:34	
Allyl chloride	ug/kg	ND	200	12.2	03/22/16 12:34	
Benzene	ug/kg	ND	20.0	7.0	03/22/16 12:34	
Bromobenzene	ug/kg	ND	50.0	12.1	03/22/16 12:34	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/22/16 12:34	
Bromodichloromethane	ug/kg	ND	200	8.9	03/22/16 12:34	
Bromoform	ug/kg	ND	500	11.9	03/22/16 12:34	
Bromomethane	ug/kg	ND	500	87.8	03/22/16 12:34	
Carbon tetrachloride	ug/kg	ND	200	12.1	03/22/16 12:34	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/22/16 12:34	
Chloroethane	ug/kg	ND	500	23.9	03/22/16 12:34	
Chloroform	ug/kg	ND	50.0	8.4	03/22/16 12:34	
Chloromethane	ug/kg	ND	200	10.1	03/22/16 12:34	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/22/16 12:34	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

METHOD BLANK: 2214542 Matrix: Solid

Associated Lab Samples: 10342030006, 10342030007, 10342030008, 10342030009, 10342030010, 10342030011, 10342030012, 10342030013, 10342030014, 10342030015, 10342030016, 10342030017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	200	5.2	03/22/16 12:34	
Dibromochloromethane	ug/kg	ND	200	7.7	03/22/16 12:34	
Dibromomethane	ug/kg	ND	50.0	11.8	03/22/16 12:34	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/22/16 12:34	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/22/16 12:34	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/22/16 12:34	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/22/16 12:34	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/22/16 12:34	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/22/16 12:34	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/22/16 12:34	
Methylene Chloride	ug/kg	ND	200	14.9	03/22/16 12:34	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/22/16 12:34	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/22/16 12:34	
Naphthalene	ug/kg	ND	200	72.1	03/22/16 12:34	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/22/16 12:34	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/22/16 12:34	
Styrene	ug/kg	ND	50.0	7.9	03/22/16 12:34	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/22/16 12:34	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/22/16 12:34	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/22/16 12:34	
Toluene	ug/kg	ND	50.0	9.6	03/22/16 12:34	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/22/16 12:34	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/22/16 12:34	
Trichloroethene	ug/kg	ND	50.0	12.1	03/22/16 12:34	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/22/16 12:34	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/22/16 12:34	
Xylene (Total)	ug/kg	ND	150	29.9	03/22/16 12:34	
1,2-Dichloroethane-d4 (S)	%.	113	75-129		03/22/16 12:34	
4-Bromofluorobenzene (S)	%.	98	75-125		03/22/16 12:34	
Toluene-d8 (S)	%.	102	75-125		03/22/16 12:34	

LABORATORY CONTROL SAMPLE & LCSD: 2214543 2214547

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	950	992	95	99	71-127	4	20	
1,1,1-Trichloroethane	ug/kg	1000	1080	1070	108	107	64-132	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1100	1040	110	104	50-138	6	20	
1,1,2-Trichloroethane	ug/kg	1000	1050	1040	105	104	69-126	1	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	964	1000	96	100	53-144	4	20	
1,1-Dichloroethane	ug/kg	1000	1090	1040	109	104	61-134	4	20	
1,1-Dichloroethene	ug/kg	1000	896	956	90	96	57-135	6	20	
1,1-Dichloropropene	ug/kg	1000	1060	1020	106	102	59-133	3	20	
1,2,3-Trichlorobenzene	ug/kg	1000	1020	1050	102	105	32-150	3	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

LABORATORY CONTROL SAMPLE & LCSD: 2214543 2214547

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	987	942	99	94	62-130	5	20	
1,2,4-Trichlorobenzene	ug/kg	1000	983	1020	98	102	38-138	4	20	
1,2,4-Trimethylbenzene	ug/kg	1000	1130	1100	113	110	70-127	3	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2020	1990	81	80	40-141	1	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1030	1040	103	104	69-130	1	20	
1,2-Dichlorobenzene	ug/kg	1000	1050	1050	105	105	72-125	0	20	
1,2-Dichloroethane	ug/kg	1000	973	914	97	91	62-125	6	20	
1,2-Dichloropropane	ug/kg	1000	1020	998	102	100	67-126	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1120	1090	112	109	71-129	3	20	
1,3-Dichlorobenzene	ug/kg	1000	1010	1010	101	101	72-126	0	20	
1,3-Dichloropropane	ug/kg	1000	1040	1040	104	104	70-125	0	20	
1,4-Dichlorobenzene	ug/kg	1000	1000	985	100	99	70-126	2	20	
2,2-Dichloropropane	ug/kg	1000	1030	1020	103	102	48-134	1	20	
2-Butanone (MEK)	ug/kg	5000	5120	4480	102	90	38-149	13	20	
2-Chlorotoluene	ug/kg	1000	1080	1030	108	103	71-129	4	20	
4-Chlorotoluene	ug/kg	1000	1090	1040	109	104	72-128	5	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5810	5250	116	105	52-145	10	20	
Acetone	ug/kg	5000	4560	4740	91	95	65-142	4	20	
Allyl chloride	ug/kg	1000	904	905	90	90	54-125	0	20	
Benzene	ug/kg	1000	1020	977	102	98	64-125	4	20	
Bromobenzene	ug/kg	1000	983	977	98	98	70-125	1	20	
Bromochloromethane	ug/kg	1000	1010	1010	101	101	68-125	0	20	
Bromodichloromethane	ug/kg	1000	879	890	88	89	67-125	1	20	
Bromoform	ug/kg	1000	916	943	92	94	56-127	3	20	
Bromomethane	ug/kg	1000	1050	1120	105	112	34-137	7	20	
Carbon tetrachloride	ug/kg	1000	886	892	89	89	58-138	1	20	
Chlorobenzene	ug/kg	1000	1020	1020	102	102	72-125	0	20	
Chloroethane	ug/kg	1000	1060	1120	106	112	39-148	5	20	
Chloroform	ug/kg	1000	1010	994	101	99	67-125	2	20	
Chloromethane	ug/kg	1000	808	773	81	77	54-125	4	20	
cis-1,2-Dichloroethene	ug/kg	1000	970	965	97	96	67-125	1	20	
cis-1,3-Dichloropropene	ug/kg	1000	874	876	87	88	62-127	0	20	
Dibromochloromethane	ug/kg	1000	858	889	86	89	67-125	4	20	
Dibromomethane	ug/kg	1000	964	988	96	99	63-129	2	20	
Dichlorodifluoromethane	ug/kg	1000	830	771	83	77	34-139	7	20	
Dichlorofluoromethane	ug/kg	1000	1430	1540	143	154	36-144	7	20	CH,L3
Diethyl ether (Ethyl ether)	ug/kg	1000	1080	1280	108	128	51-125	17	20	L3
Ethylbenzene	ug/kg	1000	1080	1060	108	106	70-129	1	20	
Hexachloro-1,3-butadiene	ug/kg	1000	986	1000	99	100	48-126	2	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1120	1120	112	112	75-127	0	20	
Methyl-tert-butyl ether	ug/kg	1000	948	944	95	94	61-125	0	20	
Methylene Chloride	ug/kg	1000	1030	985	103	99	60-126	4	20	
n-Butylbenzene	ug/kg	1000	1140	1110	114	111	67-125	2	20	
n-Propylbenzene	ug/kg	1000	1130	1100	113	110	72-133	3	20	
Naphthalene	ug/kg	1000	914	923	91	92	35-147	1	20	
p-Isopropyltoluene	ug/kg	1000	1140	1150	114	115	69-127	1	20	
sec-Butylbenzene	ug/kg	1000	1170	1130	117	113	70-127	3	20	

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

LABORATORY CONTROL SAMPLE & LCSD: 2214543 2214547

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Styrene	ug/kg	1000	1100	1110	110	111	73-125	1	20	
tert-Butylbenzene	ug/kg	1000	1120	1120	112	112	71-130	0	20	
Tetrachloroethene	ug/kg	1000	1030	1060	103	106	66-135	3	20	
Tetrahydrofuran	ug/kg	10000	9480	9990	95	100	66-145	5	20	
Toluene	ug/kg	1000	976	980	98	98	69-125	0	20	
trans-1,2-Dichloroethene	ug/kg	1000	980	964	98	96	55-135	2	20	
trans-1,3-Dichloropropene	ug/kg	1000	967	974	97	97	67-125	1	20	
Trichloroethene	ug/kg	1000	1060	1050	106	105	62-141	1	20	
Trichlorofluoromethane	ug/kg	1000	1100	1080	110	108	38-150	1	20	
Vinyl chloride	ug/kg	1000	820	771	82	77	57-131	6	20	
Xylene (Total)	ug/kg	3000	3350	3340	112	111	73-128	0	20	
1,2-Dichloroethane-d4 (S)	%.				98	91	75-129			
4-Bromofluorobenzene (S)	%.				99	96	75-125			
Toluene-d8 (S)	%.				101	100	75-125			

MATRIX SPIKE SAMPLE: 2214548

Parameter	Units	10342030017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1120	1120	100	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1120	1210	108	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1120	1220	109	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1120	1180	106	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1120	1100	99	41-150	
1,1-Dichloroethane	ug/kg	ND	1120	1180	106	53-131	
1,1-Dichloroethene	ug/kg	ND	1120	1040	93	41-133	
1,1-Dichloropropene	ug/kg	ND	1120	1160	103	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1120	1220	109	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1120	1090	98	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1120	1190	107	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1120	1260	113	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2790	2400	86	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1120	1170	105	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1120	1170	105	59-136	
1,2-Dichloroethane	ug/kg	ND	1120	1040	94	52-133	
1,2-Dichloropropane	ug/kg	ND	1120	1150	103	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1120	1270	113	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1120	1150	103	60-137	
1,3-Dichloropropane	ug/kg	ND	1120	1180	106	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1120	1120	100	51-132	
2,2-Dichloropropane	ug/kg	ND	1120	1200	108	50-134	
2-Butanone (MEK)	ug/kg	ND	5580	5370	96	46-125	
2-Chlorotoluene	ug/kg	ND	1120	1210	108	60-141	
4-Chlorotoluene	ug/kg	ND	1120	1210	108	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5580	6290	113	47-146	
Acetone	ug/kg	ND	5580	6230	112	45-148	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

MATRIX SPIKE SAMPLE: 2214548

Parameter	Units	10342030017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/kg	ND	1120	1000	90	50-135	
Benzene	ug/kg	ND	1120	1110	99	41-134	
Bromobenzene	ug/kg	ND	1120	1120	100	59-134	
Bromochloromethane	ug/kg	ND	1120	1130	101	56-127	
Bromodichloromethane	ug/kg	ND	1120	1040	93	55-136	
Bromoform	ug/kg	ND	1120	1050	94	51-139	
Bromomethane	ug/kg	ND	1120	1230	110	35-148	
Carbon tetrachloride	ug/kg	ND	1120	1030	92	50-140	
Chlorobenzene	ug/kg	ND	1120	1150	103	59-133	
Chloroethane	ug/kg	ND	1120	1310	118	30-150	
Chloroform	ug/kg	ND	1120	1120	99	58-128	
Chloromethane	ug/kg	ND	1120	901	81	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1120	1130	101	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1120	998	89	57-133	
Dibromochloromethane	ug/kg	ND	1120	1020	91	54-141	
Dibromomethane	ug/kg	ND	1120	1120	101	53-134	
Dichlorodifluoromethane	ug/kg	ND	1120	855	77	30-125	
Dichlorofluoromethane	ug/kg	ND	1120	1850	166	30-150	CH,M1
Diethyl ether (Ethyl ether)	ug/kg	ND	1120	1370	123	46-137	
Ethylbenzene	ug/kg	ND	1120	1190	107	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1120	1160	104	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1120	1260	113	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1120	1100	98	53-133	
Methylene Chloride	ug/kg	ND	1120	917	82	42-135	
n-Butylbenzene	ug/kg	ND	1120	1280	115	52-140	
n-Propylbenzene	ug/kg	ND	1120	1260	113	57-142	
Naphthalene	ug/kg	ND	1120	1100	98	41-150	
p-Isopropyltoluene	ug/kg	ND	1120	1320	118	54-139	
sec-Butylbenzene	ug/kg	ND	1120	1300	117	30-150	
Styrene	ug/kg	ND	1120	1240	111	53-137	
tert-Butylbenzene	ug/kg	ND	1120	1260	113	59-138	
Tetrachloroethene	ug/kg	ND	1120	1180	106	53-138	
Tetrahydrofuran	ug/kg	ND	11200	15300	137	50-145	
Toluene	ug/kg	ND	1120	1110	99	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1120	1070	96	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1120	1120	100	59-139	
Trichloroethene	ug/kg	ND	1120	1180	106	52-143	
Trichlorofluoromethane	ug/kg	ND	1120	1380	124	30-150	
Vinyl chloride	ug/kg	ND	1120	889	80	36-127	
Xylene (Total)	ug/kg	ND	3340	3790	113	56-137	
1,2-Dichloroethane-d4 (S)	%.				93	75-129	
4-Bromofluorobenzene (S)	%.				98	75-125	
Toluene-d8 (S)	%.				100	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

SAMPLE DUPLICATE: 2214549

Parameter	Units	10342071007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	11.2J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

SAMPLE DUPLICATE: 2214549

Parameter	Units	10342071007 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	111	115	2		
4-Bromofluorobenzene (S)	%.	93	95	1		
Toluene-d8 (S)	%.	102	103	1		

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QUALIFIERS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/34959

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M	Preserved from glass jar with headspace outside 48 hours.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10342030001	**B24-5-51**	ASTM D2974	MPRP/62191		
10342030002	**B24-5-56**	ASTM D2974	MPRP/62191		
10342030003	**B24-5-63**	ASTM D2974	MPRP/62191		
10342030004	**B24-5-91**	ASTM D2974	MPRP/62191		
10342030005	**B24-5-96**	ASTM D2974	MPRP/62191		
10342030006	**B23-5-56**	ASTM D2974	MPRP/62191		
10342030007	**B23-5-76**	ASTM D2974	MPRP/62191		
10342030008	**B23-5-78**	ASTM D2974	MPRP/62191		
10342030009	**B23-5-93**	ASTM D2974	MPRP/62191		
10342030010	**B39-5-53**	ASTM D2974	MPRP/62191		
10342030011	**B39-5-57**	ASTM D2974	MPRP/62191		
10342030012	**B39-5-61**	ASTM D2974	MPRP/62191		
10342030013	**B38-5-42**	ASTM D2974	MPRP/62191		
10342030014	**B38-5-49**	ASTM D2974	MPRP/62191		
10342030015	**B38-5-60**	ASTM D2974	MPRP/62191		
10342030016	**B37-5-45**	ASTM D2974	MPRP/62191		
10342030017	**B37-5-50**	ASTM D2974	MPRP/62191		
10342030001	**B24-5-51**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943
10342030002	**B24-5-56**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943
10342030003	**B24-5-63**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943
10342030004	**B24-5-91**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943
10342030005	**B24-5-96**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943
10342030006	**B23-5-56**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030007	**B23-5-76**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030008	**B23-5-78**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030009	**B23-5-93**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030010	**B39-5-53**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030011	**B39-5-57**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030012	**B39-5-61**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030013	**B38-5-42**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030014	**B38-5-49**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030015	**B38-5-60**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030016	**B37-5-45**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030017	**B37-5-50**	EPA 5035/5030B	MSV/34944	EPA 8260B	MSV/34959
10342030018	**Trip Blank-4**	EPA 5035/5030B	MSV/34938	EPA 8260B	MSV/34943

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

60342030

Page: 1 of 2

1988905

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle Ave Suite 500
Minneapolis, MN 55402
Email To: tony.coryell@aecom.com
Phone: 612-376-3000 Fax:
Requested Due Date/TAT: Std.

Section B Required Project Information:

Report To: Tony Coryell
Copy To: benjamin.klaus@aecom.com
Purchase Order No.:
Project Name: SLP Solvent Plume
Project Number: 60482513

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Carol Dany
Pace Profile #: 9

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): VOC by 8260, Moisture

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC by 8260	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B24-S-51					3-14-16	1245		3	1						2			X	X		001
2	B24-S-56						1250															002
3	B24-S-63						1255															003
4	B24-S-91						1300															004
5	B24-S-96						1305															005
6	B23-S-56					3-15-16	1100															006
7	B23-S-76						1415															007
8	B23-S-78						1400															008
9	B23-S-93						1500															009
10	B39-S-52					3-17-15	1030															010
11	B39-S-57						1045															011
12	B39-S-61						1600															012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ben Klaus / AECOM	3/18/16	810	[illegible] / Pace	3/18/16	810	1.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Klaus
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 3-18-16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

C0342030

Page: 2 of 2

1988906

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle Ave. Suite 900, Minneapolis MN 55402
Email To: tony.coyell@aecom.com
Phone: 612-376-2000 Fax: #
Requested Due Date/TAT: std

Section B Required Project Information:

Report To: Tony Coyell
Copy To: benjamin.klaus@aecom.com
Purchase Order No.:
Project Name: SCP Solvent Plume
Project Number: 60482513

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Carol Dany
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs by 8260	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B38-S-42					3-17-16	1245		3	1						2		X	X		013
2	B38-S-49						1300														014
3	B38-S-60						1315														015
4	B37-S-45						1415														016
5	B37-S-50						1430														017
6	Trip Blank-4					3-14-16	0700		1							1		X			018
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ben Klaus / AECOM	3/18/16	1310	[signature] / PACE	3/18/16	1310	1.0	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Klaus
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 3/18/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10342030

10342030

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ B88A912167504 ☐ 151401164 ☐ B88A0143310098

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.9 **Cooler Temp Corrected (°C):** 1.0 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** KAC 3.18.16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 113015-3				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carol Doug **Date:** 3/21/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 30, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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CERTIFICATIONS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10342549001	**B43-S-49**	Solid	03/22/16 12:55	03/24/16 10:14
10342549002	**B43-S-53**	Solid	03/22/16 13:00	03/24/16 10:14
10342549003	**B43-S-71**	Solid	03/22/16 13:05	03/24/16 10:14
10342549004	**B43-S-76**	Solid	03/22/16 13:10	03/24/16 10:14
10342549005	**B27-S-43**	Solid	03/23/16 11:10	03/24/16 10:14
10342549006	**B27-S-45**	Solid	03/23/16 11:15	03/24/16 10:14
10342549007	**B27-S-55**	Solid	03/23/16 11:20	03/24/16 10:14
10342549008	**B27-S-57**	Solid	03/23/16 11:25	03/24/16 10:14
10342549009	**B27-S-63**	Solid	03/23/16 11:30	03/24/16 10:14
10342549010	**B27-S-73**	Solid	03/23/16 11:35	03/24/16 10:14
10342549011	**Trip Blank**	Solid	03/22/16 07:00	03/24/16 10:14

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10342549001	**B43-S-49**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549002	**B43-S-53**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549003	**B43-S-71**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549004	**B43-S-76**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549005	**B27-S-43**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549006	**B27-S-45**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549007	**B27-S-55**	ASTM D2974	JDL	1
		EPA 8260B	MRB	70
10342549008	**B27-S-57**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342549009	**B27-S-63**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342549010	**B27-S-73**	ASTM D2974	JDL	1
		EPA 8260B	CD2	70
10342549011	**Trip Blank**	EPA 8260B	MRB	70

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10342549001	**B43-S-49**					
ASTM D2974	Percent Moisture	20.5	%	0.10	03/28/16 13:06	
10342549002	**B43-S-53**					
ASTM D2974	Percent Moisture	16.1	%	0.10	03/28/16 13:06	
EPA 8260B	cis-1,2-Dichloroethene	106	ug/kg	61.2	03/25/16 17:09	
10342549003	**B43-S-71**					
ASTM D2974	Percent Moisture	14.4	%	0.10	03/28/16 13:06	
10342549004	**B43-S-76**					
ASTM D2974	Percent Moisture	16.3	%	0.10	03/28/16 13:07	
EPA 8260B	cis-1,2-Dichloroethene	91.0	ug/kg	59.4	03/25/16 17:44	
10342549005	**B27-S-43**					
ASTM D2974	Percent Moisture	14.6	%	0.10	03/28/16 13:07	
10342549006	**B27-S-45**					
ASTM D2974	Percent Moisture	13.3	%	0.10	03/28/16 13:07	
10342549007	**B27-S-55**					
ASTM D2974	Percent Moisture	15.1	%	0.10	03/28/16 13:07	
10342549008	**B27-S-57**					
ASTM D2974	Percent Moisture	14.7	%	0.10	03/29/16 11:57	
10342549009	**B27-S-63**					
ASTM D2974	Percent Moisture	12.9	%	0.10	03/29/16 11:57	
10342549010	**B27-S-73**					
ASTM D2974	Percent Moisture	15.6	%	0.10	03/29/16 11:57	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 30, 2016

General Information:
11 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/34997

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2217400)
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- LCSD (Lab ID: 2217402)
  - Dichlorofluoromethane
  - Trichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/34997

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2217400)
  - Dichlorofluoromethane
- LCSD (Lab ID: 2217402)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: AECOM- MN ND
Date: March 30, 2016

QC Batch: MSV/34997

R1: RPD value was outside control limits.

- LCSD (Lab ID: 2217402)
  - Acetone
  - Dichlorodifluoromethane
  - Tetrahydrofuran
  - Vinyl chloride

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34997

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: MSV/34987

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2217103)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Isopropylbenzene (Cumene)
  - n-Butylbenzene
  - n-Propylbenzene
  - p-Isopropyltoluene
  - sec-Butylbenzene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-49 **Lab ID: 10342549001** Collected: 03/22/16 12:55 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**20.5**	%	0.10	0.10	1		03/28/16 13:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1200	270	1	03/25/16 09:07	03/25/16 16:51	67-64-1	
Allyl chloride	ND	ug/kg	241	14.7	1	03/25/16 09:07	03/25/16 16:51	107-05-1	
Benzene	ND	ug/kg	24.1	12.8	1	03/25/16 09:07	03/25/16 16:51	71-43-2	
Bromobenzene	ND	ug/kg	60.2	14.6	1	03/25/16 09:07	03/25/16 16:51	108-86-1	
Bromochloromethane	ND	ug/kg	60.2	11.5	1	03/25/16 09:07	03/25/16 16:51	74-97-5	
Bromodichloromethane	ND	ug/kg	60.2	10.7	1	03/25/16 09:07	03/25/16 16:51	75-27-4	
Bromoform	ND	ug/kg	241	14.3	1	03/25/16 09:07	03/25/16 16:51	75-25-2	
Bromomethane	ND	ug/kg	602	106	1	03/25/16 09:07	03/25/16 16:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	301	100	1	03/25/16 09:07	03/25/16 16:51	78-93-3	
n-Butylbenzene	ND	ug/kg	60.2	11.3	1	03/25/16 09:07	03/25/16 16:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.2	12.3	1	03/25/16 09:07	03/25/16 16:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.2	16.1	1	03/25/16 09:07	03/25/16 16:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.2	14.6	1	03/25/16 09:07	03/25/16 16:51	56-23-5	
Chlorobenzene	ND	ug/kg	60.2	9.8	1	03/25/16 09:07	03/25/16 16:51	108-90-7	
Chloroethane	ND	ug/kg	602	28.8	1	03/25/16 09:07	03/25/16 16:51	75-00-3	
Chloroform	ND	ug/kg	60.2	10.1	1	03/25/16 09:07	03/25/16 16:51	67-66-3	
Chloromethane	ND	ug/kg	241	12.2	1	03/25/16 09:07	03/25/16 16:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.2	12.4	1	03/25/16 09:07	03/25/16 16:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.2	11.3	1	03/25/16 09:07	03/25/16 16:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	602	46.6	1	03/25/16 09:07	03/25/16 16:51	96-12-8	
Dibromochloromethane	ND	ug/kg	60.2	9.3	1	03/25/16 09:07	03/25/16 16:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.2	10.2	1	03/25/16 09:07	03/25/16 16:51	106-93-4	
Dibromomethane	ND	ug/kg	60.2	14.2	1	03/25/16 09:07	03/25/16 16:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.2	14.6	1	03/25/16 09:07	03/25/16 16:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.2	14.7	1	03/25/16 09:07	03/25/16 16:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.2	12.8	1	03/25/16 09:07	03/25/16 16:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	241	14.8	1	03/25/16 09:07	03/25/16 16:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.2	11.5	1	03/25/16 09:07	03/25/16 16:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.2	13.5	1	03/25/16 09:07	03/25/16 16:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.2	13.7	1	03/25/16 09:07	03/25/16 16:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.2	21.4	1	03/25/16 09:07	03/25/16 16:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.2	9.9	1	03/25/16 09:07	03/25/16 16:51	156-60-5	
Dichlorofluoromethane	ND	ug/kg	602	56.6	1	03/25/16 09:07	03/25/16 16:51	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.2	12.3	1	03/25/16 09:07	03/25/16 16:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.2	9.4	1	03/25/16 09:07	03/25/16 16:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	241	24.3	1	03/25/16 09:07	03/25/16 16:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.2	12.0	1	03/25/16 09:07	03/25/16 16:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.2	6.3	1	03/25/16 09:07	03/25/16 16:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	241	23.4	1	03/25/16 09:07	03/25/16 16:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	241	19.6	1	03/25/16 09:07	03/25/16 16:51	60-29-7	
Ethylbenzene	ND	ug/kg	60.2	9.6	1	03/25/16 09:07	03/25/16 16:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	301	25.7	1	03/25/16 09:07	03/25/16 16:51	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-49 **Lab ID: 10342549001** Collected: 03/22/16 12:55 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	60.2	10.9	1	03/25/16 09:07	03/25/16 16:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.2	10.5	1	03/25/16 09:07	03/25/16 16:51	99-87-6	
Methylene Chloride	ND	ug/kg	241	17.9	1	03/25/16 09:07	03/25/16 16:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	301	76.6	1	03/25/16 09:07	03/25/16 16:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.2	16.3	1	03/25/16 09:07	03/25/16 16:51	1634-04-4	
Naphthalene	ND	ug/kg	241	86.8	1	03/25/16 09:07	03/25/16 16:51	91-20-3	
n-Propylbenzene	ND	ug/kg	60.2	15.2	1	03/25/16 09:07	03/25/16 16:51	103-65-1	
Styrene	ND	ug/kg	60.2	9.6	1	03/25/16 09:07	03/25/16 16:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.2	11.6	1	03/25/16 09:07	03/25/16 16:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.2	11.5	1	03/25/16 09:07	03/25/16 16:51	79-34-5	
Tetrachloroethene	ND	ug/kg	60.2	12.4	1	03/25/16 09:07	03/25/16 16:51	127-18-4	
Tetrahydrofuran	ND	ug/kg	2410	95.3	1	03/25/16 09:07	03/25/16 16:51	109-99-9	
Toluene	ND	ug/kg	60.2	11.5	1	03/25/16 09:07	03/25/16 16:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.2	23.4	1	03/25/16 09:07	03/25/16 16:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	241	11.0	1	03/25/16 09:07	03/25/16 16:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.2	11.7	1	03/25/16 09:07	03/25/16 16:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.2	16.5	1	03/25/16 09:07	03/25/16 16:51	79-00-5	
Trichloroethene	ND	ug/kg	60.2	14.6	1	03/25/16 09:07	03/25/16 16:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	241	41.7	1	03/25/16 09:07	03/25/16 16:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	241	16.6	1	03/25/16 09:07	03/25/16 16:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	241	14.2	1	03/25/16 09:07	03/25/16 16:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.2	12.0	1	03/25/16 09:07	03/25/16 16:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.2	13.5	1	03/25/16 09:07	03/25/16 16:51	108-67-8	
Vinyl chloride	ND	ug/kg	60.2	10.8	1	03/25/16 09:07	03/25/16 16:51	75-01-4	
Xylene (Total)	ND	ug/kg	181	36.0	1	03/25/16 09:07	03/25/16 16:51	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	03/25/16 09:07	03/25/16 16:51	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	03/25/16 09:07	03/25/16 16:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1	03/25/16 09:07	03/25/16 16:51	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-53 **Lab ID: 10342549002** Collected: 03/22/16 13:00 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.1**	%	0.10	0.10	1		03/28/16 13:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1220	274	1	03/25/16 09:07	03/25/16 17:09	67-64-1	
Allyl chloride	ND	ug/kg	245	14.9	1	03/25/16 09:07	03/25/16 17:09	107-05-1	
Benzene	ND	ug/kg	24.5	13.0	1	03/25/16 09:07	03/25/16 17:09	71-43-2	
Bromobenzene	ND	ug/kg	61.2	14.8	1	03/25/16 09:07	03/25/16 17:09	108-86-1	
Bromochloromethane	ND	ug/kg	61.2	11.7	1	03/25/16 09:07	03/25/16 17:09	74-97-5	
Bromodichloromethane	ND	ug/kg	61.2	10.9	1	03/25/16 09:07	03/25/16 17:09	75-27-4	
Bromoform	ND	ug/kg	245	14.6	1	03/25/16 09:07	03/25/16 17:09	75-25-2	
Bromomethane	ND	ug/kg	612	107	1	03/25/16 09:07	03/25/16 17:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	306	102	1	03/25/16 09:07	03/25/16 17:09	78-93-3	
n-Butylbenzene	ND	ug/kg	61.2	11.5	1	03/25/16 09:07	03/25/16 17:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.2	12.5	1	03/25/16 09:07	03/25/16 17:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.2	16.4	1	03/25/16 09:07	03/25/16 17:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	61.2	14.8	1	03/25/16 09:07	03/25/16 17:09	56-23-5	
Chlorobenzene	ND	ug/kg	61.2	9.9	1	03/25/16 09:07	03/25/16 17:09	108-90-7	
Chloroethane	ND	ug/kg	612	29.2	1	03/25/16 09:07	03/25/16 17:09	75-00-3	
Chloroform	ND	ug/kg	61.2	10.2	1	03/25/16 09:07	03/25/16 17:09	67-66-3	
Chloromethane	ND	ug/kg	245	12.4	1	03/25/16 09:07	03/25/16 17:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.2	12.6	1	03/25/16 09:07	03/25/16 17:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.2	11.5	1	03/25/16 09:07	03/25/16 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	612	47.4	1	03/25/16 09:07	03/25/16 17:09	96-12-8	
Dibromochloromethane	ND	ug/kg	61.2	9.5	1	03/25/16 09:07	03/25/16 17:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.2	10.4	1	03/25/16 09:07	03/25/16 17:09	106-93-4	
Dibromomethane	ND	ug/kg	61.2	14.4	1	03/25/16 09:07	03/25/16 17:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.2	14.8	1	03/25/16 09:07	03/25/16 17:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.2	14.9	1	03/25/16 09:07	03/25/16 17:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.2	13.0	1	03/25/16 09:07	03/25/16 17:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	245	15.1	1	03/25/16 09:07	03/25/16 17:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.2	11.7	1	03/25/16 09:07	03/25/16 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.2	13.7	1	03/25/16 09:07	03/25/16 17:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.2	14.0	1	03/25/16 09:07	03/25/16 17:09	75-35-4	
cis-1,2-Dichloroethene	**106**	ug/kg	61.2	21.8	1	03/25/16 09:07	03/25/16 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.2	10.0	1	03/25/16 09:07	03/25/16 17:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	612	57.5	1	03/25/16 09:07	03/25/16 17:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	61.2	12.5	1	03/25/16 09:07	03/25/16 17:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.2	9.6	1	03/25/16 09:07	03/25/16 17:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	245	24.7	1	03/25/16 09:07	03/25/16 17:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.2	12.2	1	03/25/16 09:07	03/25/16 17:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	61.2	6.4	1	03/25/16 09:07	03/25/16 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	245	23.7	1	03/25/16 09:07	03/25/16 17:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	245	19.9	1	03/25/16 09:07	03/25/16 17:09	60-29-7	
Ethylbenzene	ND	ug/kg	61.2	9.8	1	03/25/16 09:07	03/25/16 17:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	306	26.1	1	03/25/16 09:07	03/25/16 17:09	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-53 **Lab ID: 10342549002** Collected: 03/22/16 13:00 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	61.2	11.1	1	03/25/16 09:07	03/25/16 17:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.2	10.7	1	03/25/16 09:07	03/25/16 17:09	99-87-6	
Methylene Chloride	ND	ug/kg	245	18.2	1	03/25/16 09:07	03/25/16 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	306	77.8	1	03/25/16 09:07	03/25/16 17:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.2	16.5	1	03/25/16 09:07	03/25/16 17:09	1634-04-4	
Naphthalene	ND	ug/kg	245	88.2	1	03/25/16 09:07	03/25/16 17:09	91-20-3	
n-Propylbenzene	ND	ug/kg	61.2	15.4	1	03/25/16 09:07	03/25/16 17:09	103-65-1	
Styrene	ND	ug/kg	61.2	9.7	1	03/25/16 09:07	03/25/16 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	61.2	11.8	1	03/25/16 09:07	03/25/16 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.2	11.7	1	03/25/16 09:07	03/25/16 17:09	79-34-5	
Tetrachloroethene	ND	ug/kg	61.2	12.6	1	03/25/16 09:07	03/25/16 17:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2450	96.8	1	03/25/16 09:07	03/25/16 17:09	109-99-9	
Toluene	ND	ug/kg	61.2	11.7	1	03/25/16 09:07	03/25/16 17:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.2	23.7	1	03/25/16 09:07	03/25/16 17:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	245	11.1	1	03/25/16 09:07	03/25/16 17:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	61.2	11.9	1	03/25/16 09:07	03/25/16 17:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.2	16.8	1	03/25/16 09:07	03/25/16 17:09	79-00-5	
Trichloroethene	ND	ug/kg	61.2	14.8	1	03/25/16 09:07	03/25/16 17:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	245	42.3	1	03/25/16 09:07	03/25/16 17:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	245	16.9	1	03/25/16 09:07	03/25/16 17:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	245	14.4	1	03/25/16 09:07	03/25/16 17:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.2	12.2	1	03/25/16 09:07	03/25/16 17:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.2	13.7	1	03/25/16 09:07	03/25/16 17:09	108-67-8	
Vinyl chloride	ND	ug/kg	61.2	11.0	1	03/25/16 09:07	03/25/16 17:09	75-01-4	
Xylene (Total)	ND	ug/kg	184	36.6	1	03/25/16 09:07	03/25/16 17:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/25/16 09:07	03/25/16 17:09	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/25/16 09:07	03/25/16 17:09	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	75-125		1	03/25/16 09:07	03/25/16 17:09	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-71 **Lab ID: 10342549003** Collected: 03/22/16 13:05 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.4**	%	0.10	0.10	1		03/28/16 13:06		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1180	265	1	03/25/16 09:07	03/25/16 17:27	67-64-1	
Allyl chloride	ND	ug/kg	237	14.5	1	03/25/16 09:07	03/25/16 17:27	107-05-1	
Benzene	ND	ug/kg	23.7	12.6	1	03/25/16 09:07	03/25/16 17:27	71-43-2	
Bromobenzene	ND	ug/kg	59.2	14.3	1	03/25/16 09:07	03/25/16 17:27	108-86-1	
Bromochloromethane	ND	ug/kg	59.2	11.4	1	03/25/16 09:07	03/25/16 17:27	74-97-5	
Bromodichloromethane	ND	ug/kg	59.2	10.5	1	03/25/16 09:07	03/25/16 17:27	75-27-4	
Bromoform	ND	ug/kg	237	14.1	1	03/25/16 09:07	03/25/16 17:27	75-25-2	
Bromomethane	ND	ug/kg	592	104	1	03/25/16 09:07	03/25/16 17:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	296	98.4	1	03/25/16 09:07	03/25/16 17:27	78-93-3	
n-Butylbenzene	ND	ug/kg	59.2	11.1	1	03/25/16 09:07	03/25/16 17:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.2	12.1	1	03/25/16 09:07	03/25/16 17:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.2	15.9	1	03/25/16 09:07	03/25/16 17:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.2	14.3	1	03/25/16 09:07	03/25/16 17:27	56-23-5	
Chlorobenzene	ND	ug/kg	59.2	9.6	1	03/25/16 09:07	03/25/16 17:27	108-90-7	
Chloroethane	ND	ug/kg	592	28.3	1	03/25/16 09:07	03/25/16 17:27	75-00-3	
Chloroform	ND	ug/kg	59.2	9.9	1	03/25/16 09:07	03/25/16 17:27	67-66-3	
Chloromethane	ND	ug/kg	237	12.0	1	03/25/16 09:07	03/25/16 17:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.2	12.2	1	03/25/16 09:07	03/25/16 17:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.2	11.1	1	03/25/16 09:07	03/25/16 17:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	592	45.9	1	03/25/16 09:07	03/25/16 17:27	96-12-8	
Dibromochloromethane	ND	ug/kg	59.2	9.2	1	03/25/16 09:07	03/25/16 17:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.2	10.0	1	03/25/16 09:07	03/25/16 17:27	106-93-4	
Dibromomethane	ND	ug/kg	59.2	14.0	1	03/25/16 09:07	03/25/16 17:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.2	14.3	1	03/25/16 09:07	03/25/16 17:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.2	14.5	1	03/25/16 09:07	03/25/16 17:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.2	12.6	1	03/25/16 09:07	03/25/16 17:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	14.6	1	03/25/16 09:07	03/25/16 17:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.2	11.3	1	03/25/16 09:07	03/25/16 17:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.2	13.3	1	03/25/16 09:07	03/25/16 17:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.2	13.5	1	03/25/16 09:07	03/25/16 17:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.2	21.1	1	03/25/16 09:07	03/25/16 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.2	9.7	1	03/25/16 09:07	03/25/16 17:27	156-60-5	
Dichlorofluoromethane	ND	ug/kg	592	55.7	1	03/25/16 09:07	03/25/16 17:27	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.2	12.1	1	03/25/16 09:07	03/25/16 17:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.2	9.3	1	03/25/16 09:07	03/25/16 17:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	23.9	1	03/25/16 09:07	03/25/16 17:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.2	11.8	1	03/25/16 09:07	03/25/16 17:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.2	6.2	1	03/25/16 09:07	03/25/16 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	237	23.0	1	03/25/16 09:07	03/25/16 17:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	19.3	1	03/25/16 09:07	03/25/16 17:27	60-29-7	
Ethylbenzene	ND	ug/kg	59.2	9.5	1	03/25/16 09:07	03/25/16 17:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	296	25.2	1	03/25/16 09:07	03/25/16 17:27	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-71 **Lab ID: 10342549003** Collected: 03/22/16 13:05 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.2	10.8	1	03/25/16 09:07	03/25/16 17:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.2	10.3	1	03/25/16 09:07	03/25/16 17:27	99-87-6	
Methylene Chloride	ND	ug/kg	237	17.7	1	03/25/16 09:07	03/25/16 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	296	75.4	1	03/25/16 09:07	03/25/16 17:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.2	16.0	1	03/25/16 09:07	03/25/16 17:27	1634-04-4	
Naphthalene	ND	ug/kg	237	85.4	1	03/25/16 09:07	03/25/16 17:27	91-20-3	
n-Propylbenzene	ND	ug/kg	59.2	14.9	1	03/25/16 09:07	03/25/16 17:27	103-65-1	
Styrene	ND	ug/kg	59.2	9.4	1	03/25/16 09:07	03/25/16 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.2	11.4	1	03/25/16 09:07	03/25/16 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.2	11.3	1	03/25/16 09:07	03/25/16 17:27	79-34-5	
Tetrachloroethene	ND	ug/kg	59.2	12.2	1	03/25/16 09:07	03/25/16 17:27	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	93.7	1	03/25/16 09:07	03/25/16 17:27	109-99-9	
Toluene	ND	ug/kg	59.2	11.4	1	03/25/16 09:07	03/25/16 17:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.2	23.0	1	03/25/16 09:07	03/25/16 17:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	237	10.8	1	03/25/16 09:07	03/25/16 17:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.2	11.5	1	03/25/16 09:07	03/25/16 17:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.2	16.2	1	03/25/16 09:07	03/25/16 17:27	79-00-5	
Trichloroethene	ND	ug/kg	59.2	14.3	1	03/25/16 09:07	03/25/16 17:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	41.0	1	03/25/16 09:07	03/25/16 17:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	16.4	1	03/25/16 09:07	03/25/16 17:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	14.0	1	03/25/16 09:07	03/25/16 17:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.2	11.8	1	03/25/16 09:07	03/25/16 17:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.2	13.3	1	03/25/16 09:07	03/25/16 17:27	108-67-8	
Vinyl chloride	ND	ug/kg	59.2	10.7	1	03/25/16 09:07	03/25/16 17:27	75-01-4	
Xylene (Total)	ND	ug/kg	178	35.5	1	03/25/16 09:07	03/25/16 17:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/25/16 09:07	03/25/16 17:27	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/25/16 09:07	03/25/16 17:27	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	75-125		1	03/25/16 09:07	03/25/16 17:27	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-76 **Lab ID: 10342549004** Collected: 03/22/16 13:10 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**16.3**	%	0.10	0.10	1		03/28/16 13:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	266	1	03/25/16 09:07	03/25/16 17:44	67-64-1	
Allyl chloride	ND	ug/kg	238	14.5	1	03/25/16 09:07	03/25/16 17:44	107-05-1	
Benzene	ND	ug/kg	23.8	12.6	1	03/25/16 09:07	03/25/16 17:44	71-43-2	
Bromobenzene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 17:44	108-86-1	
Bromochloromethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 17:44	74-97-5	
Bromodichloromethane	ND	ug/kg	59.4	10.6	1	03/25/16 09:07	03/25/16 17:44	75-27-4	
Bromoform	ND	ug/kg	238	14.1	1	03/25/16 09:07	03/25/16 17:44	75-25-2	
Bromomethane	ND	ug/kg	594	104	1	03/25/16 09:07	03/25/16 17:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	297	98.6	1	03/25/16 09:07	03/25/16 17:44	78-93-3	
n-Butylbenzene	ND	ug/kg	59.4	11.2	1	03/25/16 09:07	03/25/16 17:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.4	12.1	1	03/25/16 09:07	03/25/16 17:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.4	15.9	1	03/25/16 09:07	03/25/16 17:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 17:44	56-23-5	
Chlorobenzene	ND	ug/kg	59.4	9.6	1	03/25/16 09:07	03/25/16 17:44	108-90-7	
Chloroethane	ND	ug/kg	594	28.4	1	03/25/16 09:07	03/25/16 17:44	75-00-3	
Chloroform	ND	ug/kg	59.4	9.9	1	03/25/16 09:07	03/25/16 17:44	67-66-3	
Chloromethane	ND	ug/kg	238	12.0	1	03/25/16 09:07	03/25/16 17:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.4	12.2	1	03/25/16 09:07	03/25/16 17:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.4	11.2	1	03/25/16 09:07	03/25/16 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	594	46.0	1	03/25/16 09:07	03/25/16 17:44	96-12-8	
Dibromochloromethane	ND	ug/kg	59.4	9.2	1	03/25/16 09:07	03/25/16 17:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.4	10.1	1	03/25/16 09:07	03/25/16 17:44	106-93-4	
Dibromomethane	ND	ug/kg	59.4	14.0	1	03/25/16 09:07	03/25/16 17:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.4	14.5	1	03/25/16 09:07	03/25/16 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.4	12.6	1	03/25/16 09:07	03/25/16 17:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	14.6	1	03/25/16 09:07	03/25/16 17:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 17:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.4	13.3	1	03/25/16 09:07	03/25/16 17:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.4	13.5	1	03/25/16 09:07	03/25/16 17:44	75-35-4	
cis-1,2-Dichloroethene	**91.0**	ug/kg	59.4	21.1	1	03/25/16 09:07	03/25/16 17:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.4	9.8	1	03/25/16 09:07	03/25/16 17:44	156-60-5	
Dichlorofluoromethane	ND	ug/kg	594	55.8	1	03/25/16 09:07	03/25/16 17:44	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.4	12.1	1	03/25/16 09:07	03/25/16 17:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.4	9.3	1	03/25/16 09:07	03/25/16 17:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	238	24.0	1	03/25/16 09:07	03/25/16 17:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.4	11.9	1	03/25/16 09:07	03/25/16 17:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.4	6.2	1	03/25/16 09:07	03/25/16 17:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	238	23.0	1	03/25/16 09:07	03/25/16 17:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	238	19.4	1	03/25/16 09:07	03/25/16 17:44	60-29-7	
Ethylbenzene	ND	ug/kg	59.4	9.5	1	03/25/16 09:07	03/25/16 17:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	297	25.3	1	03/25/16 09:07	03/25/16 17:44	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B43-S-76 **Lab ID: 10342549004** Collected: 03/22/16 13:10 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.4	10.8	1	03/25/16 09:07	03/25/16 17:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.4	10.4	1	03/25/16 09:07	03/25/16 17:44	99-87-6	
Methylene Chloride	ND	ug/kg	238	17.7	1	03/25/16 09:07	03/25/16 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	297	75.5	1	03/25/16 09:07	03/25/16 17:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.4	16.0	1	03/25/16 09:07	03/25/16 17:44	1634-04-4	
Naphthalene	ND	ug/kg	238	85.6	1	03/25/16 09:07	03/25/16 17:44	91-20-3	
n-Propylbenzene	ND	ug/kg	59.4	15.0	1	03/25/16 09:07	03/25/16 17:44	103-65-1	
Styrene	ND	ug/kg	59.4	9.4	1	03/25/16 09:07	03/25/16 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 17:44	79-34-5	
Tetrachloroethene	ND	ug/kg	59.4	12.2	1	03/25/16 09:07	03/25/16 17:44	127-18-4	
Tetrahydrofuran	ND	ug/kg	2380	94.0	1	03/25/16 09:07	03/25/16 17:44	109-99-9	
Toluene	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 17:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.4	23.0	1	03/25/16 09:07	03/25/16 17:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	238	10.8	1	03/25/16 09:07	03/25/16 17:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.4	11.6	1	03/25/16 09:07	03/25/16 17:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.4	16.3	1	03/25/16 09:07	03/25/16 17:44	79-00-5	
Trichloroethene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	238	41.1	1	03/25/16 09:07	03/25/16 17:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	238	16.4	1	03/25/16 09:07	03/25/16 17:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	238	14.0	1	03/25/16 09:07	03/25/16 17:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.4	11.9	1	03/25/16 09:07	03/25/16 17:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.4	13.3	1	03/25/16 09:07	03/25/16 17:44	108-67-8	
Vinyl chloride	ND	ug/kg	59.4	10.7	1	03/25/16 09:07	03/25/16 17:44	75-01-4	
Xylene (Total)	ND	ug/kg	178	35.5	1	03/25/16 09:07	03/25/16 17:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-129		1	03/25/16 09:07	03/25/16 17:44	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/25/16 09:07	03/25/16 17:44	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	75-125		1	03/25/16 09:07	03/25/16 17:44	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-43 **Lab ID: 10342549005** Collected: 03/23/16 11:10 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.6**	%	0.10	0.10	1		03/28/16 13:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	266	1	03/25/16 09:07	03/25/16 18:02	67-64-1	
Allyl chloride	ND	ug/kg	237	14.5	1	03/25/16 09:07	03/25/16 18:02	107-05-1	
Benzene	ND	ug/kg	23.7	12.6	1	03/25/16 09:07	03/25/16 18:02	71-43-2	
Bromobenzene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 18:02	108-86-1	
Bromochloromethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 18:02	74-97-5	
Bromodichloromethane	ND	ug/kg	59.4	10.6	1	03/25/16 09:07	03/25/16 18:02	75-27-4	
Bromoform	ND	ug/kg	237	14.1	1	03/25/16 09:07	03/25/16 18:02	75-25-2	
Bromomethane	ND	ug/kg	594	104	1	03/25/16 09:07	03/25/16 18:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	297	98.5	1	03/25/16 09:07	03/25/16 18:02	78-93-3	
n-Butylbenzene	ND	ug/kg	59.4	11.2	1	03/25/16 09:07	03/25/16 18:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.4	12.1	1	03/25/16 09:07	03/25/16 18:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.4	15.9	1	03/25/16 09:07	03/25/16 18:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 18:02	56-23-5	
Chlorobenzene	ND	ug/kg	59.4	9.6	1	03/25/16 09:07	03/25/16 18:02	108-90-7	
Chloroethane	ND	ug/kg	594	28.4	1	03/25/16 09:07	03/25/16 18:02	75-00-3	
Chloroform	ND	ug/kg	59.4	9.9	1	03/25/16 09:07	03/25/16 18:02	67-66-3	
Chloromethane	ND	ug/kg	237	12.0	1	03/25/16 09:07	03/25/16 18:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.4	12.2	1	03/25/16 09:07	03/25/16 18:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.4	11.1	1	03/25/16 09:07	03/25/16 18:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	594	45.9	1	03/25/16 09:07	03/25/16 18:02	96-12-8	
Dibromochloromethane	ND	ug/kg	59.4	9.2	1	03/25/16 09:07	03/25/16 18:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.4	10.1	1	03/25/16 09:07	03/25/16 18:02	106-93-4	
Dibromomethane	ND	ug/kg	59.4	14.0	1	03/25/16 09:07	03/25/16 18:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 18:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.4	14.5	1	03/25/16 09:07	03/25/16 18:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.4	12.6	1	03/25/16 09:07	03/25/16 18:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	14.6	1	03/25/16 09:07	03/25/16 18:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.4	11.3	1	03/25/16 09:07	03/25/16 18:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.4	13.3	1	03/25/16 09:07	03/25/16 18:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.4	13.5	1	03/25/16 09:07	03/25/16 18:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.4	21.1	1	03/25/16 09:07	03/25/16 18:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.4	9.7	1	03/25/16 09:07	03/25/16 18:02	156-60-5	
Dichlorofluoromethane	ND	ug/kg	594	55.8	1	03/25/16 09:07	03/25/16 18:02	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.4	12.1	1	03/25/16 09:07	03/25/16 18:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.4	9.3	1	03/25/16 09:07	03/25/16 18:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	24.0	1	03/25/16 09:07	03/25/16 18:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.4	11.9	1	03/25/16 09:07	03/25/16 18:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.4	6.2	1	03/25/16 09:07	03/25/16 18:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	237	23.0	1	03/25/16 09:07	03/25/16 18:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	19.3	1	03/25/16 09:07	03/25/16 18:02	60-29-7	
Ethylbenzene	ND	ug/kg	59.4	9.5	1	03/25/16 09:07	03/25/16 18:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	297	25.3	1	03/25/16 09:07	03/25/16 18:02	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-43 **Lab ID: 10342549005** Collected: 03/23/16 11:10 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.4	10.8	1	03/25/16 09:07	03/25/16 18:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.4	10.4	1	03/25/16 09:07	03/25/16 18:02	99-87-6	
Methylene Chloride	ND	ug/kg	237	17.7	1	03/25/16 09:07	03/25/16 18:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	297	75.5	1	03/25/16 09:07	03/25/16 18:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.4	16.0	1	03/25/16 09:07	03/25/16 18:02	1634-04-4	
Naphthalene	ND	ug/kg	237	85.6	1	03/25/16 09:07	03/25/16 18:02	91-20-3	
n-Propylbenzene	ND	ug/kg	59.4	15.0	1	03/25/16 09:07	03/25/16 18:02	103-65-1	
Styrene	ND	ug/kg	59.4	9.4	1	03/25/16 09:07	03/25/16 18:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 18:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 18:02	79-34-5	
Tetrachloroethene	ND	ug/kg	59.4	12.2	1	03/25/16 09:07	03/25/16 18:02	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	93.9	1	03/25/16 09:07	03/25/16 18:02	109-99-9	
Toluene	ND	ug/kg	59.4	11.4	1	03/25/16 09:07	03/25/16 18:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.4	23.0	1	03/25/16 09:07	03/25/16 18:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	237	10.8	1	03/25/16 09:07	03/25/16 18:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.4	11.5	1	03/25/16 09:07	03/25/16 18:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.4	16.3	1	03/25/16 09:07	03/25/16 18:02	79-00-5	
Trichloroethene	ND	ug/kg	59.4	14.4	1	03/25/16 09:07	03/25/16 18:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	41.1	1	03/25/16 09:07	03/25/16 18:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	16.4	1	03/25/16 09:07	03/25/16 18:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	14.0	1	03/25/16 09:07	03/25/16 18:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.4	11.9	1	03/25/16 09:07	03/25/16 18:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.4	13.3	1	03/25/16 09:07	03/25/16 18:02	108-67-8	
Vinyl chloride	ND	ug/kg	59.4	10.7	1	03/25/16 09:07	03/25/16 18:02	75-01-4	
Xylene (Total)	ND	ug/kg	178	35.5	1	03/25/16 09:07	03/25/16 18:02	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-129		1	03/25/16 09:07	03/25/16 18:02	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/25/16 09:07	03/25/16 18:02	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125		1	03/25/16 09:07	03/25/16 18:02	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-45 **Lab ID: 10342549006** Collected: 03/23/16 11:15 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**13.3**	%	0.10	0.10	1		03/28/16 13:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1120	251	1	03/25/16 09:07	03/25/16 18:20	67-64-1	
Allyl chloride	ND	ug/kg	224	13.7	1	03/25/16 09:07	03/25/16 18:20	107-05-1	
Benzene	ND	ug/kg	22.4	11.9	1	03/25/16 09:07	03/25/16 18:20	71-43-2	
Bromobenzene	ND	ug/kg	56.1	13.6	1	03/25/16 09:07	03/25/16 18:20	108-86-1	
Bromochloromethane	ND	ug/kg	56.1	10.7	1	03/25/16 09:07	03/25/16 18:20	74-97-5	
Bromodichloromethane	ND	ug/kg	56.1	10	1	03/25/16 09:07	03/25/16 18:20	75-27-4	
Bromoform	ND	ug/kg	224	13.3	1	03/25/16 09:07	03/25/16 18:20	75-25-2	
Bromomethane	ND	ug/kg	561	98.5	1	03/25/16 09:07	03/25/16 18:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	280	93.1	1	03/25/16 09:07	03/25/16 18:20	78-93-3	
n-Butylbenzene	ND	ug/kg	56.1	10.5	1	03/25/16 09:07	03/25/16 18:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.1	11.4	1	03/25/16 09:07	03/25/16 18:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.1	15.0	1	03/25/16 09:07	03/25/16 18:20	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.1	13.6	1	03/25/16 09:07	03/25/16 18:20	56-23-5	
Chlorobenzene	ND	ug/kg	56.1	9.1	1	03/25/16 09:07	03/25/16 18:20	108-90-7	
Chloroethane	ND	ug/kg	561	26.8	1	03/25/16 09:07	03/25/16 18:20	75-00-3	
Chloroform	ND	ug/kg	56.1	9.4	1	03/25/16 09:07	03/25/16 18:20	67-66-3	
Chloromethane	ND	ug/kg	224	11.3	1	03/25/16 09:07	03/25/16 18:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.1	11.6	1	03/25/16 09:07	03/25/16 18:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.1	10.5	1	03/25/16 09:07	03/25/16 18:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	561	43.4	1	03/25/16 09:07	03/25/16 18:20	96-12-8	
Dibromochloromethane	ND	ug/kg	56.1	8.7	1	03/25/16 09:07	03/25/16 18:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.1	9.5	1	03/25/16 09:07	03/25/16 18:20	106-93-4	
Dibromomethane	ND	ug/kg	56.1	13.2	1	03/25/16 09:07	03/25/16 18:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.1	13.6	1	03/25/16 09:07	03/25/16 18:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.1	13.7	1	03/25/16 09:07	03/25/16 18:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.1	11.9	1	03/25/16 09:07	03/25/16 18:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	224	13.8	1	03/25/16 09:07	03/25/16 18:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.1	10.7	1	03/25/16 09:07	03/25/16 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.1	12.6	1	03/25/16 09:07	03/25/16 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.1	12.8	1	03/25/16 09:07	03/25/16 18:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.1	20.0	1	03/25/16 09:07	03/25/16 18:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.1	9.2	1	03/25/16 09:07	03/25/16 18:20	156-60-5	
Dichlorofluoromethane	ND	ug/kg	561	52.7	1	03/25/16 09:07	03/25/16 18:20	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.1	11.4	1	03/25/16 09:07	03/25/16 18:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.1	8.8	1	03/25/16 09:07	03/25/16 18:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	224	22.7	1	03/25/16 09:07	03/25/16 18:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.1	11.2	1	03/25/16 09:07	03/25/16 18:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.1	5.8	1	03/25/16 09:07	03/25/16 18:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	224	21.8	1	03/25/16 09:07	03/25/16 18:20	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	224	18.3	1	03/25/16 09:07	03/25/16 18:20	60-29-7	
Ethylbenzene	ND	ug/kg	56.1	9.0	1	03/25/16 09:07	03/25/16 18:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	280	23.9	1	03/25/16 09:07	03/25/16 18:20	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-45 **Lab ID: 10342549006** Collected: 03/23/16 11:15 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.1	10.2	1	03/25/16 09:07	03/25/16 18:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.1	9.8	1	03/25/16 09:07	03/25/16 18:20	99-87-6	
Methylene Chloride	ND	ug/kg	224	16.7	1	03/25/16 09:07	03/25/16 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	280	71.3	1	03/25/16 09:07	03/25/16 18:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.1	15.1	1	03/25/16 09:07	03/25/16 18:20	1634-04-4	
Naphthalene	ND	ug/kg	224	80.9	1	03/25/16 09:07	03/25/16 18:20	91-20-3	
n-Propylbenzene	ND	ug/kg	56.1	14.1	1	03/25/16 09:07	03/25/16 18:20	103-65-1	
Styrene	ND	ug/kg	56.1	8.9	1	03/25/16 09:07	03/25/16 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.1	10.8	1	03/25/16 09:07	03/25/16 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.1	10.7	1	03/25/16 09:07	03/25/16 18:20	79-34-5	
Tetrachloroethene	ND	ug/kg	56.1	11.6	1	03/25/16 09:07	03/25/16 18:20	127-18-4	
Tetrahydrofuran	ND	ug/kg	2240	88.7	1	03/25/16 09:07	03/25/16 18:20	109-99-9	
Toluene	ND	ug/kg	56.1	10.8	1	03/25/16 09:07	03/25/16 18:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.1	21.8	1	03/25/16 09:07	03/25/16 18:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	224	10.2	1	03/25/16 09:07	03/25/16 18:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.1	10.9	1	03/25/16 09:07	03/25/16 18:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.1	15.4	1	03/25/16 09:07	03/25/16 18:20	79-00-5	
Trichloroethene	ND	ug/kg	56.1	13.6	1	03/25/16 09:07	03/25/16 18:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	224	38.8	1	03/25/16 09:07	03/25/16 18:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	224	15.5	1	03/25/16 09:07	03/25/16 18:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	224	13.2	1	03/25/16 09:07	03/25/16 18:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.1	11.2	1	03/25/16 09:07	03/25/16 18:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.1	12.6	1	03/25/16 09:07	03/25/16 18:20	108-67-8	
Vinyl chloride	ND	ug/kg	56.1	10.1	1	03/25/16 09:07	03/25/16 18:20	75-01-4	
Xylene (Total)	ND	ug/kg	168	33.6	1	03/25/16 09:07	03/25/16 18:20	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%.	75-129		1	03/25/16 09:07	03/25/16 18:20	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	03/25/16 09:07	03/25/16 18:20	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	75-125		1	03/25/16 09:07	03/25/16 18:20	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-55 **Lab ID: 10342549007** Collected: 03/23/16 11:20 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.1**	%	0.10	0.10	1		03/28/16 13:07		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1170	261	1	03/25/16 09:07	03/28/16 12:41	67-64-1	
Allyl chloride	ND	ug/kg	233	14.2	1	03/25/16 09:07	03/28/16 12:41	107-05-1	
Benzene	ND	ug/kg	23.3	12.4	1	03/25/16 09:07	03/28/16 12:41	71-43-2	
Bromobenzene	ND	ug/kg	58.4	14.1	1	03/25/16 09:07	03/28/16 12:41	108-86-1	
Bromochloromethane	ND	ug/kg	58.4	11.2	1	03/25/16 09:07	03/28/16 12:41	74-97-5	
Bromodichloromethane	ND	ug/kg	58.4	10.4	1	03/25/16 09:07	03/28/16 12:41	75-27-4	
Bromoform	ND	ug/kg	233	13.9	1	03/25/16 09:07	03/28/16 12:41	75-25-2	
Bromomethane	ND	ug/kg	584	102	1	03/25/16 09:07	03/28/16 12:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	292	96.9	1	03/25/16 09:07	03/28/16 12:41	78-93-3	
n-Butylbenzene	ND	ug/kg	58.4	11.0	1	03/25/16 09:07	03/28/16 12:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.4	11.9	1	03/25/16 09:07	03/28/16 12:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.4	15.6	1	03/25/16 09:07	03/28/16 12:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.4	14.1	1	03/25/16 09:07	03/28/16 12:41	56-23-5	
Chlorobenzene	ND	ug/kg	58.4	9.5	1	03/25/16 09:07	03/28/16 12:41	108-90-7	
Chloroethane	ND	ug/kg	584	27.9	1	03/25/16 09:07	03/28/16 12:41	75-00-3	
Chloroform	ND	ug/kg	58.4	9.8	1	03/25/16 09:07	03/28/16 12:41	67-66-3	
Chloromethane	ND	ug/kg	233	11.8	1	03/25/16 09:07	03/28/16 12:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.4	12.0	1	03/25/16 09:07	03/28/16 12:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.4	11.0	1	03/25/16 09:07	03/28/16 12:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	584	45.2	1	03/25/16 09:07	03/28/16 12:41	96-12-8	
Dibromochloromethane	ND	ug/kg	58.4	9.0	1	03/25/16 09:07	03/28/16 12:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.4	9.9	1	03/25/16 09:07	03/28/16 12:41	106-93-4	
Dibromomethane	ND	ug/kg	58.4	13.8	1	03/25/16 09:07	03/28/16 12:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.4	14.1	1	03/25/16 09:07	03/28/16 12:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.4	14.2	1	03/25/16 09:07	03/28/16 12:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.4	12.4	1	03/25/16 09:07	03/28/16 12:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	14.4	1	03/25/16 09:07	03/28/16 12:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.4	11.2	1	03/25/16 09:07	03/28/16 12:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.4	13.1	1	03/25/16 09:07	03/28/16 12:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.4	13.3	1	03/25/16 09:07	03/28/16 12:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.4	20.8	1	03/25/16 09:07	03/28/16 12:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.4	9.6	1	03/25/16 09:07	03/28/16 12:41	156-60-5	
Dichlorofluoromethane	ND	ug/kg	584	54.9	1	03/25/16 09:07	03/28/16 12:41	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.4	11.9	1	03/25/16 09:07	03/28/16 12:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.4	9.1	1	03/25/16 09:07	03/28/16 12:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	23.6	1	03/25/16 09:07	03/28/16 12:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.4	11.7	1	03/25/16 09:07	03/28/16 12:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.4	6.1	1	03/25/16 09:07	03/28/16 12:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	233	22.6	1	03/25/16 09:07	03/28/16 12:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	19.0	1	03/25/16 09:07	03/28/16 12:41	60-29-7	
Ethylbenzene	ND	ug/kg	58.4	9.3	1	03/25/16 09:07	03/28/16 12:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	292	24.9	1	03/25/16 09:07	03/28/16 12:41	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-55 **Lab ID: 10342549007** Collected: 03/23/16 11:20 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.4	10.6	1	03/25/16 09:07	03/28/16 12:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.4	10.2	1	03/25/16 09:07	03/28/16 12:41	99-87-6	
Methylene Chloride	ND	ug/kg	233	17.4	1	03/25/16 09:07	03/28/16 12:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	292	74.2	1	03/25/16 09:07	03/28/16 12:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.4	15.8	1	03/25/16 09:07	03/28/16 12:41	1634-04-4	
Naphthalene	ND	ug/kg	233	84.2	1	03/25/16 09:07	03/28/16 12:41	91-20-3	
n-Propylbenzene	ND	ug/kg	58.4	14.7	1	03/25/16 09:07	03/28/16 12:41	103-65-1	
Styrene	ND	ug/kg	58.4	9.3	1	03/25/16 09:07	03/28/16 12:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/25/16 09:07	03/28/16 12:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.4	11.2	1	03/25/16 09:07	03/28/16 12:41	79-34-5	
Tetrachloroethene	ND	ug/kg	58.4	12.0	1	03/25/16 09:07	03/28/16 12:41	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	92.3	1	03/25/16 09:07	03/28/16 12:41	109-99-9	
Toluene	ND	ug/kg	58.4	11.2	1	03/25/16 09:07	03/28/16 12:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.4	22.6	1	03/25/16 09:07	03/28/16 12:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	233	10.6	1	03/25/16 09:07	03/28/16 12:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.4	11.4	1	03/25/16 09:07	03/28/16 12:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.4	16.0	1	03/25/16 09:07	03/28/16 12:41	79-00-5	
Trichloroethene	ND	ug/kg	58.4	14.1	1	03/25/16 09:07	03/28/16 12:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	40.4	1	03/25/16 09:07	03/28/16 12:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	16.1	1	03/25/16 09:07	03/28/16 12:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	13.8	1	03/25/16 09:07	03/28/16 12:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.4	11.7	1	03/25/16 09:07	03/28/16 12:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.4	13.1	1	03/25/16 09:07	03/28/16 12:41	108-67-8	
Vinyl chloride	ND	ug/kg	58.4	10.5	1	03/25/16 09:07	03/28/16 12:41	75-01-4	
Xylene (Total)	ND	ug/kg	175	34.9	1	03/25/16 09:07	03/28/16 12:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-129		1	03/25/16 09:07	03/28/16 12:41	17060-07-0	
Toluene-d8 (S)	96	%.	75-125		1	03/25/16 09:07	03/28/16 12:41	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	75-125		1	03/25/16 09:07	03/28/16 12:41	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-57 **Lab ID: 10342549008** Collected: 03/23/16 11:25 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**14.7**	%	0.10	0.10	1		03/29/16 11:57		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1190	265	1	03/25/16 12:49	03/25/16 17:43	67-64-1	
Allyl chloride	ND	ug/kg	237	14.5	1	03/25/16 12:49	03/25/16 17:43	107-05-1	
Benzene	ND	ug/kg	23.7	8.3	1	03/25/16 12:49	03/25/16 17:43	71-43-2	
Bromobenzene	ND	ug/kg	59.3	14.3	1	03/25/16 12:49	03/25/16 17:43	108-86-1	
Bromochloromethane	ND	ug/kg	59.3	11.4	1	03/25/16 12:49	03/25/16 17:43	74-97-5	
Bromodichloromethane	ND	ug/kg	237	10.5	1	03/25/16 12:49	03/25/16 17:43	75-27-4	
Bromoform	ND	ug/kg	593	14.1	1	03/25/16 12:49	03/25/16 17:43	75-25-2	
Bromomethane	ND	ug/kg	593	104	1	03/25/16 12:49	03/25/16 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	296	98.4	1	03/25/16 12:49	03/25/16 17:43	78-93-3	
n-Butylbenzene	ND	ug/kg	59.3	11.1	1	03/25/16 12:49	03/25/16 17:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.3	12.1	1	03/25/16 12:49	03/25/16 17:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.3	15.9	1	03/25/16 12:49	03/25/16 17:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	237	14.3	1	03/25/16 12:49	03/25/16 17:43	56-23-5	
Chlorobenzene	ND	ug/kg	59.3	9.6	1	03/25/16 12:49	03/25/16 17:43	108-90-7	
Chloroethane	ND	ug/kg	593	28.3	1	03/25/16 12:49	03/25/16 17:43	75-00-3	
Chloroform	ND	ug/kg	59.3	9.9	1	03/25/16 12:49	03/25/16 17:43	67-66-3	
Chloromethane	ND	ug/kg	237	12.0	1	03/25/16 12:49	03/25/16 17:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.3	12.2	1	03/25/16 12:49	03/25/16 17:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.3	11.1	1	03/25/16 12:49	03/25/16 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	593	45.9	1	03/25/16 12:49	03/25/16 17:43	96-12-8	
Dibromochloromethane	ND	ug/kg	237	9.2	1	03/25/16 12:49	03/25/16 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.3	9.5	1	03/25/16 12:49	03/25/16 17:43	106-93-4	
Dibromomethane	ND	ug/kg	59.3	14.0	1	03/25/16 12:49	03/25/16 17:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.3	14.3	1	03/25/16 12:49	03/25/16 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.3	14.5	1	03/25/16 12:49	03/25/16 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.3	12.6	1	03/25/16 12:49	03/25/16 17:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	14.6	1	03/25/16 12:49	03/25/16 17:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.3	11.3	1	03/25/16 12:49	03/25/16 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.3	13.3	1	03/25/16 12:49	03/25/16 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.3	13.5	1	03/25/16 12:49	03/25/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.3	21.1	1	03/25/16 12:49	03/25/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.3	9.7	1	03/25/16 12:49	03/25/16 17:43	156-60-5	
Dichlorofluoromethane	ND	ug/kg	593	55.7	1	03/25/16 12:49	03/25/16 17:43	75-43-4	L3
1,2-Dichloropropane	ND	ug/kg	59.3	12.1	1	03/25/16 12:49	03/25/16 17:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.3	9.3	1	03/25/16 12:49	03/25/16 17:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	23.9	1	03/25/16 12:49	03/25/16 17:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.3	11.9	1	03/25/16 12:49	03/25/16 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	237	6.2	1	03/25/16 12:49	03/25/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	593	23.0	1	03/25/16 12:49	03/25/16 17:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	19.3	1	03/25/16 12:49	03/25/16 17:43	60-29-7	
Ethylbenzene	ND	ug/kg	59.3	8.9	1	03/25/16 12:49	03/25/16 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	296	25.2	1	03/25/16 12:49	03/25/16 17:43	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-57 **Lab ID: 10342549008** Collected: 03/23/16 11:25 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	59.3	10.8	1	03/25/16 12:49	03/25/16 17:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.3	10.3	1	03/25/16 12:49	03/25/16 17:43	99-87-6	
Methylene Chloride	ND	ug/kg	237	17.7	1	03/25/16 12:49	03/25/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	296	75.4	1	03/25/16 12:49	03/25/16 17:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.3	11.1	1	03/25/16 12:49	03/25/16 17:43	1634-04-4	
Naphthalene	ND	ug/kg	237	85.5	1	03/25/16 12:49	03/25/16 17:43	91-20-3	
n-Propylbenzene	ND	ug/kg	59.3	12.7	1	03/25/16 12:49	03/25/16 17:43	103-65-1	
Styrene	ND	ug/kg	59.3	9.4	1	03/25/16 12:49	03/25/16 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	237	11.4	1	03/25/16 12:49	03/25/16 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.3	11.3	1	03/25/16 12:49	03/25/16 17:43	79-34-5	
Tetrachloroethene	ND	ug/kg	59.3	12.2	1	03/25/16 12:49	03/25/16 17:43	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	93.8	1	03/25/16 12:49	03/25/16 17:43	109-99-9	
Toluene	ND	ug/kg	59.3	11.4	1	03/25/16 12:49	03/25/16 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.3	23.0	1	03/25/16 12:49	03/25/16 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.3	10.8	1	03/25/16 12:49	03/25/16 17:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.3	11.5	1	03/25/16 12:49	03/25/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.3	16.2	1	03/25/16 12:49	03/25/16 17:43	79-00-5	
Trichloroethene	ND	ug/kg	59.3	14.3	1	03/25/16 12:49	03/25/16 17:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	41.0	1	03/25/16 12:49	03/25/16 17:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	16.4	1	03/25/16 12:49	03/25/16 17:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	14.0	1	03/25/16 12:49	03/25/16 17:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.3	11.9	1	03/25/16 12:49	03/25/16 17:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.3	11.5	1	03/25/16 12:49	03/25/16 17:43	108-67-8	
Vinyl chloride	ND	ug/kg	23.7	10.7	1	03/25/16 12:49	03/25/16 17:43	75-01-4	
Xylene (Total)	ND	ug/kg	178	35.5	1	03/25/16 12:49	03/25/16 17:43	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-129		1	03/25/16 12:49	03/25/16 17:43	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	03/25/16 12:49	03/25/16 17:43	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/25/16 12:49	03/25/16 17:43	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-63 **Lab ID: 10342549009** Collected: 03/23/16 11:30 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**12.9**	%	0.10	0.10	1		03/29/16 11:57		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1230	275	1	03/25/16 12:49	03/25/16 18:00	67-64-1	
Allyl chloride	ND	ug/kg	245	15.0	1	03/25/16 12:49	03/25/16 18:00	107-05-1	
Benzene	ND	ug/kg	24.5	8.6	1	03/25/16 12:49	03/25/16 18:00	71-43-2	
Bromobenzene	ND	ug/kg	61.4	14.8	1	03/25/16 12:49	03/25/16 18:00	108-86-1	
Bromochloromethane	ND	ug/kg	61.4	11.8	1	03/25/16 12:49	03/25/16 18:00	74-97-5	
Bromodichloromethane	ND	ug/kg	245	10.9	1	03/25/16 12:49	03/25/16 18:00	75-27-4	
Bromoform	ND	ug/kg	614	14.6	1	03/25/16 12:49	03/25/16 18:00	75-25-2	
Bromomethane	ND	ug/kg	614	108	1	03/25/16 12:49	03/25/16 18:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	307	102	1	03/25/16 12:49	03/25/16 18:00	78-93-3	
n-Butylbenzene	ND	ug/kg	61.4	11.5	1	03/25/16 12:49	03/25/16 18:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.4	12.5	1	03/25/16 12:49	03/25/16 18:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.4	16.4	1	03/25/16 12:49	03/25/16 18:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	245	14.8	1	03/25/16 12:49	03/25/16 18:00	56-23-5	
Chlorobenzene	ND	ug/kg	61.4	10	1	03/25/16 12:49	03/25/16 18:00	108-90-7	
Chloroethane	ND	ug/kg	614	29.3	1	03/25/16 12:49	03/25/16 18:00	75-00-3	
Chloroform	ND	ug/kg	61.4	10.3	1	03/25/16 12:49	03/25/16 18:00	67-66-3	
Chloromethane	ND	ug/kg	245	12.4	1	03/25/16 12:49	03/25/16 18:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.4	12.6	1	03/25/16 12:49	03/25/16 18:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.4	11.5	1	03/25/16 12:49	03/25/16 18:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	614	47.5	1	03/25/16 12:49	03/25/16 18:00	96-12-8	
Dibromochloromethane	ND	ug/kg	245	9.5	1	03/25/16 12:49	03/25/16 18:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.4	9.9	1	03/25/16 12:49	03/25/16 18:00	106-93-4	
Dibromomethane	ND	ug/kg	61.4	14.5	1	03/25/16 12:49	03/25/16 18:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.4	14.8	1	03/25/16 12:49	03/25/16 18:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.4	15.0	1	03/25/16 12:49	03/25/16 18:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.4	13.0	1	03/25/16 12:49	03/25/16 18:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	245	15.1	1	03/25/16 12:49	03/25/16 18:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.4	11.7	1	03/25/16 12:49	03/25/16 18:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.4	13.7	1	03/25/16 12:49	03/25/16 18:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.4	14.0	1	03/25/16 12:49	03/25/16 18:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.4	21.8	1	03/25/16 12:49	03/25/16 18:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.4	10.1	1	03/25/16 12:49	03/25/16 18:00	156-60-5	
Dichlorofluoromethane	ND	ug/kg	614	57.7	1	03/25/16 12:49	03/25/16 18:00	75-43-4	L3
1,2-Dichloropropane	ND	ug/kg	61.4	12.5	1	03/25/16 12:49	03/25/16 18:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.4	9.6	1	03/25/16 12:49	03/25/16 18:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	245	24.8	1	03/25/16 12:49	03/25/16 18:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.4	12.3	1	03/25/16 12:49	03/25/16 18:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	245	6.4	1	03/25/16 12:49	03/25/16 18:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	614	23.8	1	03/25/16 12:49	03/25/16 18:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	245	20.0	1	03/25/16 12:49	03/25/16 18:00	60-29-7	
Ethylbenzene	ND	ug/kg	61.4	9.2	1	03/25/16 12:49	03/25/16 18:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	307	26.1	1	03/25/16 12:49	03/25/16 18:00	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-63 **Lab ID: 10342549009** Collected: 03/23/16 11:30 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	61.4	11.2	1	03/25/16 12:49	03/25/16 18:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.4	10.7	1	03/25/16 12:49	03/25/16 18:00	99-87-6	
Methylene Chloride	ND	ug/kg	245	18.3	1	03/25/16 12:49	03/25/16 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	307	78.0	1	03/25/16 12:49	03/25/16 18:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.4	11.5	1	03/25/16 12:49	03/25/16 18:00	1634-04-4	
Naphthalene	ND	ug/kg	245	88.5	1	03/25/16 12:49	03/25/16 18:00	91-20-3	
n-Propylbenzene	ND	ug/kg	61.4	13.1	1	03/25/16 12:49	03/25/16 18:00	103-65-1	
Styrene	ND	ug/kg	61.4	9.7	1	03/25/16 12:49	03/25/16 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	245	11.8	1	03/25/16 12:49	03/25/16 18:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.4	11.7	1	03/25/16 12:49	03/25/16 18:00	79-34-5	
Tetrachloroethene	ND	ug/kg	61.4	12.6	1	03/25/16 12:49	03/25/16 18:00	127-18-4	
Tetrahydrofuran	ND	ug/kg	2450	97.1	1	03/25/16 12:49	03/25/16 18:00	109-99-9	
Toluene	ND	ug/kg	61.4	11.8	1	03/25/16 12:49	03/25/16 18:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.4	23.8	1	03/25/16 12:49	03/25/16 18:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	61.4	11.2	1	03/25/16 12:49	03/25/16 18:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	61.4	11.9	1	03/25/16 12:49	03/25/16 18:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.4	16.8	1	03/25/16 12:49	03/25/16 18:00	79-00-5	
Trichloroethene	ND	ug/kg	61.4	14.8	1	03/25/16 12:49	03/25/16 18:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	245	42.5	1	03/25/16 12:49	03/25/16 18:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	245	16.9	1	03/25/16 12:49	03/25/16 18:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	245	14.5	1	03/25/16 12:49	03/25/16 18:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.4	12.3	1	03/25/16 12:49	03/25/16 18:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.4	11.9	1	03/25/16 12:49	03/25/16 18:00	108-67-8	
Vinyl chloride	ND	ug/kg	24.5	11.0	1	03/25/16 12:49	03/25/16 18:00	75-01-4	
Xylene (Total)	ND	ug/kg	184	36.7	1	03/25/16 12:49	03/25/16 18:00	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-129		1	03/25/16 12:49	03/25/16 18:00	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/25/16 12:49	03/25/16 18:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	03/25/16 12:49	03/25/16 18:00	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-73 **Lab ID: 10342549010** Collected: 03/23/16 11:35 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**15.6**	%	0.10	0.10	1		03/29/16 11:57		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1230	275	1	03/25/16 12:49	03/25/16 18:16	67-64-1	
Allyl chloride	ND	ug/kg	245	15.0	1	03/25/16 12:49	03/25/16 18:16	107-05-1	
Benzene	ND	ug/kg	24.5	8.6	1	03/25/16 12:49	03/25/16 18:16	71-43-2	
Bromobenzene	ND	ug/kg	61.3	14.8	1	03/25/16 12:49	03/25/16 18:16	108-86-1	
Bromochloromethane	ND	ug/kg	61.3	11.7	1	03/25/16 12:49	03/25/16 18:16	74-97-5	
Bromodichloromethane	ND	ug/kg	245	10.9	1	03/25/16 12:49	03/25/16 18:16	75-27-4	
Bromoform	ND	ug/kg	613	14.6	1	03/25/16 12:49	03/25/16 18:16	75-25-2	
Bromomethane	ND	ug/kg	613	108	1	03/25/16 12:49	03/25/16 18:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	306	102	1	03/25/16 12:49	03/25/16 18:16	78-93-3	
n-Butylbenzene	ND	ug/kg	61.3	11.5	1	03/25/16 12:49	03/25/16 18:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.3	12.5	1	03/25/16 12:49	03/25/16 18:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.3	16.4	1	03/25/16 12:49	03/25/16 18:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	245	14.8	1	03/25/16 12:49	03/25/16 18:16	56-23-5	
Chlorobenzene	ND	ug/kg	61.3	9.9	1	03/25/16 12:49	03/25/16 18:16	108-90-7	
Chloroethane	ND	ug/kg	613	29.3	1	03/25/16 12:49	03/25/16 18:16	75-00-3	
Chloroform	ND	ug/kg	61.3	10.3	1	03/25/16 12:49	03/25/16 18:16	67-66-3	
Chloromethane	ND	ug/kg	245	12.4	1	03/25/16 12:49	03/25/16 18:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.3	12.6	1	03/25/16 12:49	03/25/16 18:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.3	11.5	1	03/25/16 12:49	03/25/16 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	613	47.4	1	03/25/16 12:49	03/25/16 18:16	96-12-8	
Dibromochloromethane	ND	ug/kg	245	9.5	1	03/25/16 12:49	03/25/16 18:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.3	9.9	1	03/25/16 12:49	03/25/16 18:16	106-93-4	
Dibromomethane	ND	ug/kg	61.3	14.5	1	03/25/16 12:49	03/25/16 18:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.3	14.8	1	03/25/16 12:49	03/25/16 18:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.3	15.0	1	03/25/16 12:49	03/25/16 18:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.3	13.0	1	03/25/16 12:49	03/25/16 18:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	245	15.1	1	03/25/16 12:49	03/25/16 18:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.3	11.7	1	03/25/16 12:49	03/25/16 18:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.3	13.7	1	03/25/16 12:49	03/25/16 18:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.3	14.0	1	03/25/16 12:49	03/25/16 18:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.3	21.8	1	03/25/16 12:49	03/25/16 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.3	10.1	1	03/25/16 12:49	03/25/16 18:16	156-60-5	
Dichlorofluoromethane	ND	ug/kg	613	57.6	1	03/25/16 12:49	03/25/16 18:16	75-43-4	L3
1,2-Dichloropropane	ND	ug/kg	61.3	12.5	1	03/25/16 12:49	03/25/16 18:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.3	9.6	1	03/25/16 12:49	03/25/16 18:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	245	24.8	1	03/25/16 12:49	03/25/16 18:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.3	12.3	1	03/25/16 12:49	03/25/16 18:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	245	6.4	1	03/25/16 12:49	03/25/16 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	613	23.8	1	03/25/16 12:49	03/25/16 18:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	245	20.0	1	03/25/16 12:49	03/25/16 18:16	60-29-7	
Ethylbenzene	ND	ug/kg	61.3	9.2	1	03/25/16 12:49	03/25/16 18:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	306	26.1	1	03/25/16 12:49	03/25/16 18:16	87-68-3	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: B27-S-73 **Lab ID: 10342549010** Collected: 03/23/16 11:35 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	61.3	11.1	1	03/25/16 12:49	03/25/16 18:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.3	10.7	1	03/25/16 12:49	03/25/16 18:16	99-87-6	
Methylene Chloride	ND	ug/kg	245	18.3	1	03/25/16 12:49	03/25/16 18:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	306	78.0	1	03/25/16 12:49	03/25/16 18:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.3	11.5	1	03/25/16 12:49	03/25/16 18:16	1634-04-4	
Naphthalene	ND	ug/kg	245	88.4	1	03/25/16 12:49	03/25/16 18:16	91-20-3	
n-Propylbenzene	ND	ug/kg	61.3	13.1	1	03/25/16 12:49	03/25/16 18:16	103-65-1	
Styrene	ND	ug/kg	61.3	9.7	1	03/25/16 12:49	03/25/16 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	245	11.8	1	03/25/16 12:49	03/25/16 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.3	11.7	1	03/25/16 12:49	03/25/16 18:16	79-34-5	
Tetrachloroethene	ND	ug/kg	61.3	12.6	1	03/25/16 12:49	03/25/16 18:16	127-18-4	
Tetrahydrofuran	ND	ug/kg	2450	97.0	1	03/25/16 12:49	03/25/16 18:16	109-99-9	
Toluene	ND	ug/kg	61.3	11.8	1	03/25/16 12:49	03/25/16 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.3	23.8	1	03/25/16 12:49	03/25/16 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	61.3	11.2	1	03/25/16 12:49	03/25/16 18:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	61.3	11.9	1	03/25/16 12:49	03/25/16 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.3	16.8	1	03/25/16 12:49	03/25/16 18:16	79-00-5	
Trichloroethene	ND	ug/kg	61.3	14.8	1	03/25/16 12:49	03/25/16 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	245	42.4	1	03/25/16 12:49	03/25/16 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	245	16.9	1	03/25/16 12:49	03/25/16 18:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	245	14.5	1	03/25/16 12:49	03/25/16 18:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.3	12.3	1	03/25/16 12:49	03/25/16 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.3	11.9	1	03/25/16 12:49	03/25/16 18:16	108-67-8	
Vinyl chloride	ND	ug/kg	24.5	11.0	1	03/25/16 12:49	03/25/16 18:16	75-01-4	
Xylene (Total)	ND	ug/kg	184	36.7	1	03/25/16 12:49	03/25/16 18:16	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-129		1	03/25/16 12:49	03/25/16 18:16	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	03/25/16 12:49	03/25/16 18:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125		1	03/25/16 12:49	03/25/16 18:16	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: Trip Blank **Lab ID: 10342549011** Collected: 03/22/16 07:00 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1000	224	1	03/25/16 09:07	03/25/16 15:41	67-64-1	
Allyl chloride	ND	ug/kg	200	12.2	1	03/25/16 09:07	03/25/16 15:41	107-05-1	
Benzene	ND	ug/kg	20.0	10.6	1	03/25/16 09:07	03/25/16 15:41	71-43-2	
Bromobenzene	ND	ug/kg	50.0	12.1	1	03/25/16 09:07	03/25/16 15:41	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	9.6	1	03/25/16 09:07	03/25/16 15:41	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	03/25/16 09:07	03/25/16 15:41	75-27-4	
Bromoform	ND	ug/kg	200	11.9	1	03/25/16 09:07	03/25/16 15:41	75-25-2	
Bromomethane	ND	ug/kg	500	87.8	1	03/25/16 09:07	03/25/16 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	83.0	1	03/25/16 09:07	03/25/16 15:41	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	9.4	1	03/25/16 09:07	03/25/16 15:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	10.2	1	03/25/16 09:07	03/25/16 15:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	13.4	1	03/25/16 09:07	03/25/16 15:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	12.1	1	03/25/16 09:07	03/25/16 15:41	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	8.1	1	03/25/16 09:07	03/25/16 15:41	108-90-7	
Chloroethane	ND	ug/kg	500	23.9	1	03/25/16 09:07	03/25/16 15:41	75-00-3	
Chloroform	ND	ug/kg	50.0	8.4	1	03/25/16 09:07	03/25/16 15:41	67-66-3	
Chloromethane	ND	ug/kg	200	10.1	1	03/25/16 09:07	03/25/16 15:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.3	1	03/25/16 09:07	03/25/16 15:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	9.4	1	03/25/16 09:07	03/25/16 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	38.7	1	03/25/16 09:07	03/25/16 15:41	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	7.7	1	03/25/16 09:07	03/25/16 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	8.5	1	03/25/16 09:07	03/25/16 15:41	106-93-4	
Dibromomethane	ND	ug/kg	50.0	11.8	1	03/25/16 09:07	03/25/16 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	12.1	1	03/25/16 09:07	03/25/16 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	12.2	1	03/25/16 09:07	03/25/16 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	10.6	1	03/25/16 09:07	03/25/16 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	12.3	1	03/25/16 09:07	03/25/16 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	9.6	1	03/25/16 09:07	03/25/16 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.2	1	03/25/16 09:07	03/25/16 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	11.4	1	03/25/16 09:07	03/25/16 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	17.8	1	03/25/16 09:07	03/25/16 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	8.2	1	03/25/16 09:07	03/25/16 15:41	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	47.0	1	03/25/16 09:07	03/25/16 15:41	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	10.2	1	03/25/16 09:07	03/25/16 15:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	7.8	1	03/25/16 09:07	03/25/16 15:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	20.2	1	03/25/16 09:07	03/25/16 15:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.0	1	03/25/16 09:07	03/25/16 15:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	5.2	1	03/25/16 09:07	03/25/16 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	200	19.4	1	03/25/16 09:07	03/25/16 15:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	16.3	1	03/25/16 09:07	03/25/16 15:41	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	8.0	1	03/25/16 09:07	03/25/16 15:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	21.3	1	03/25/16 09:07	03/25/16 15:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	9.1	1	03/25/16 09:07	03/25/16 15:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	8.7	1	03/25/16 09:07	03/25/16 15:41	99-87-6	
Methylene Chloride	ND	ug/kg	200	14.9	1	03/25/16 09:07	03/25/16 15:41	75-09-2	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Sample: Trip Blank **Lab ID: 10342549011** Collected: 03/22/16 07:00 Received: 03/24/16 10:14 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	63.6	1	03/25/16 09:07	03/25/16 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	13.5	1	03/25/16 09:07	03/25/16 15:41	1634-04-4	
Naphthalene	ND	ug/kg	200	72.1	1	03/25/16 09:07	03/25/16 15:41	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	12.6	1	03/25/16 09:07	03/25/16 15:41	103-65-1	
Styrene	ND	ug/kg	50.0	7.9	1	03/25/16 09:07	03/25/16 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/25/16 09:07	03/25/16 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	9.6	1	03/25/16 09:07	03/25/16 15:41	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	10.3	1	03/25/16 09:07	03/25/16 15:41	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	79.1	1	03/25/16 09:07	03/25/16 15:41	109-99-9	
Toluene	ND	ug/kg	50.0	9.6	1	03/25/16 09:07	03/25/16 15:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	19.4	1	03/25/16 09:07	03/25/16 15:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	200	9.1	1	03/25/16 09:07	03/25/16 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	9.7	1	03/25/16 09:07	03/25/16 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.7	1	03/25/16 09:07	03/25/16 15:41	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.1	1	03/25/16 09:07	03/25/16 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	34.6	1	03/25/16 09:07	03/25/16 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	13.8	1	03/25/16 09:07	03/25/16 15:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	11.8	1	03/25/16 09:07	03/25/16 15:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.0	1	03/25/16 09:07	03/25/16 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	11.2	1	03/25/16 09:07	03/25/16 15:41	108-67-8	
Vinyl chloride	ND	ug/kg	50.0	9.0	1	03/25/16 09:07	03/25/16 15:41	75-01-4	
Xylene (Total)	ND	ug/kg	150	29.9	1	03/25/16 09:07	03/25/16 15:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-129		1	03/25/16 09:07	03/25/16 15:41	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	03/25/16 09:07	03/25/16 15:41	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	75-125		1	03/25/16 09:07	03/25/16 15:41	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

QC Batch: MPRP/62239 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10342549001, 10342549002, 10342549003, 10342549004, 10342549005, 10342549006, 10342549007

SAMPLE DUPLICATE: 2218135

Parameter	Units	10342615003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	14.5	0	30	

SAMPLE DUPLICATE: 2218136

Parameter	Units	10342549007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.1	14.9	1	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

QC Batch: MPRP/62269 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10342549008, 10342549009, 10342549010

SAMPLE DUPLICATE: 2218761

Parameter	Units	10342603001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.5	7.9	6	30	

SAMPLE DUPLICATE: 2218766

Parameter	Units	10342810001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	4.1	2	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

QC Batch: MSV/34987 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10342549001, 10342549002, 10342549003, 10342549004, 10342549005, 10342549006, 10342549007, 10342549011

METHOD BLANK: 2217068 Matrix: Solid
Associated Lab Samples: 10342549001, 10342549002, 10342549003, 10342549004, 10342549005, 10342549006, 10342549007, 10342549011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/25/16 13:55	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/25/16 13:55	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/25/16 13:55	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/25/16 13:55	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/25/16 13:55	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/25/16 13:55	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/25/16 13:55	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/25/16 13:55	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/25/16 13:55	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/25/16 13:55	
1,2,4-Trichlorobenzene	ug/kg	ND	200	9.1	03/25/16 13:55	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/25/16 13:55	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/25/16 13:55	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.5	03/25/16 13:55	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/25/16 13:55	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/25/16 13:55	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/25/16 13:55	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11.2	03/25/16 13:55	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/25/16 13:55	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/25/16 13:55	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/25/16 13:55	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/25/16 13:55	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/25/16 13:55	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/25/16 13:55	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/25/16 13:55	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/25/16 13:55	
Acetone	ug/kg	ND	1000	224	03/25/16 13:55	
Allyl chloride	ug/kg	ND	200	12.2	03/25/16 13:55	
Benzene	ug/kg	ND	20.0	10.6	03/25/16 13:55	
Bromobenzene	ug/kg	ND	50.0	12.1	03/25/16 13:55	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/25/16 13:55	
Bromodichloromethane	ug/kg	ND	50.0	8.9	03/25/16 13:55	
Bromoform	ug/kg	ND	200	11.9	03/25/16 13:55	
Bromomethane	ug/kg	ND	500	87.8	03/25/16 13:55	
Carbon tetrachloride	ug/kg	ND	50.0	12.1	03/25/16 13:55	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/25/16 13:55	
Chloroethane	ug/kg	ND	500	23.9	03/25/16 13:55	
Chloroform	ug/kg	ND	50.0	8.4	03/25/16 13:55	
Chloromethane	ug/kg	ND	200	10.1	03/25/16 13:55	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/25/16 13:55	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

METHOD BLANK: 2217068 Matrix: Solid

Associated Lab Samples: 10342549001, 10342549002, 10342549003, 10342549004, 10342549005, 10342549006, 10342549007, 10342549011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	5.2	03/25/16 13:55	
Dibromochloromethane	ug/kg	ND	50.0	7.7	03/25/16 13:55	
Dibromomethane	ug/kg	ND	50.0	11.8	03/25/16 13:55	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/25/16 13:55	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/25/16 13:55	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/25/16 13:55	
Ethylbenzene	ug/kg	ND	50.0	8.0	03/25/16 13:55	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/25/16 13:55	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/25/16 13:55	
Methyl-tert-butyl ether	ug/kg	ND	50.0	13.5	03/25/16 13:55	
Methylene Chloride	ug/kg	ND	200	14.9	03/25/16 13:55	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/25/16 13:55	
n-Propylbenzene	ug/kg	ND	50.0	12.6	03/25/16 13:55	
Naphthalene	ug/kg	ND	200	72.1	03/25/16 13:55	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/25/16 13:55	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/25/16 13:55	
Styrene	ug/kg	ND	50.0	7.9	03/25/16 13:55	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/25/16 13:55	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/25/16 13:55	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/25/16 13:55	
Toluene	ug/kg	ND	50.0	9.6	03/25/16 13:55	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/25/16 13:55	
trans-1,3-Dichloropropene	ug/kg	ND	200	19.4	03/25/16 13:55	
Trichloroethene	ug/kg	ND	50.0	12.1	03/25/16 13:55	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/25/16 13:55	
Vinyl chloride	ug/kg	ND	50.0	9.0	03/25/16 13:55	
Xylene (Total)	ug/kg	ND	150	29.9	03/25/16 13:55	
1,2-Dichloroethane-d4 (S)	%.	99	75-129		03/25/16 13:55	
4-Bromofluorobenzene (S)	%.	106	75-125		03/25/16 13:55	
Toluene-d8 (S)	%.	98	75-125		03/25/16 13:55	

LABORATORY CONTROL SAMPLE & LCSD: 2217069 2217070

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	949	936	95	94	71-127	1	20	
1,1,1-Trichloroethane	ug/kg	1000	1010	1010	101	101	64-132	0	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	940	985	94	99	50-138	5	20	
1,1,2-Trichloroethane	ug/kg	1000	913	929	91	93	69-126	2	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	942	927	94	93	53-144	2	20	
1,1-Dichloroethane	ug/kg	1000	940	966	94	97	61-134	3	20	
1,1-Dichloroethene	ug/kg	1000	795	842	79	84	57-135	6	20	
1,1-Dichloropropene	ug/kg	1000	934	937	93	94	59-133	0	20	
1,2,3-Trichlorobenzene	ug/kg	1000	878	922	88	92	32-150	5	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

LABORATORY CONTROL SAMPLE & LCSD: 2217069 2217070

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	929	1010	93	101	62-130	9	20	
1,2,4-Trichlorobenzene	ug/kg	1000	855	898	86	90	38-138	5	20	
1,2,4-Trimethylbenzene	ug/kg	1000	985	1020	98	102	70-127	3	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2030	2110	81	84	40-141	4	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	918	950	92	95	69-130	3	20	
1,2-Dichlorobenzene	ug/kg	1000	954	969	95	97	72-125	2	20	
1,2-Dichloroethane	ug/kg	1000	979	965	98	96	62-125	1	20	
1,2-Dichloropropane	ug/kg	1000	953	947	95	95	67-126	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1030	100	103	71-129	3	20	
1,3-Dichlorobenzene	ug/kg	1000	937	958	94	96	72-126	2	20	
1,3-Dichloropropane	ug/kg	1000	935	950	94	95	70-125	2	20	
1,4-Dichlorobenzene	ug/kg	1000	932	949	93	95	70-126	2	20	
2,2-Dichloropropane	ug/kg	1000	1060	1060	106	106	48-134	0	20	
2-Butanone (MEK)	ug/kg	5000	4590	4070	92	81	38-149	12	20	
2-Chlorotoluene	ug/kg	1000	1000	1030	100	103	71-129	3	20	
4-Chlorotoluene	ug/kg	1000	978	1010	98	101	72-128	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4600	4580	92	92	52-145	1	20	
Acetone	ug/kg	5000	4310	4350	86	87	65-142	1	20	
Allyl chloride	ug/kg	1000	893	922	89	92	54-125	3	20	
Benzene	ug/kg	1000	941	961	94	96	64-125	2	20	
Bromobenzene	ug/kg	1000	878	909	88	91	70-125	3	20	
Bromochloromethane	ug/kg	1000	968	966	97	97	68-125	0	20	
Bromodichloromethane	ug/kg	1000	973	1000	97	100	67-125	3	20	
Bromoform	ug/kg	1000	922	907	92	91	56-127	2	20	
Bromomethane	ug/kg	1000	940	934	94	93	34-137	1	20	
Carbon tetrachloride	ug/kg	1000	935	960	93	96	58-138	3	20	
Chlorobenzene	ug/kg	1000	921	917	92	92	72-125	0	20	
Chloroethane	ug/kg	1000	960	981	96	98	39-148	2	20	
Chloroform	ug/kg	1000	928	937	93	94	67-125	1	20	
Chloromethane	ug/kg	1000	665	678	67	68	54-125	2	20	
cis-1,2-Dichloroethene	ug/kg	1000	839	892	84	89	67-125	6	20	
cis-1,3-Dichloropropene	ug/kg	1000	961	972	96	97	62-127	1	20	
Dibromochloromethane	ug/kg	1000	913	912	91	91	67-125	0	20	
Dibromomethane	ug/kg	1000	923	975	92	98	63-129	5	20	
Dichlorodifluoromethane	ug/kg	1000	660	665	66	66	34-139	1	20	
Dichlorofluoromethane	ug/kg	1000	907	862	91	86	36-144	5	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	977	1010	98	101	51-125	4	20	
Ethylbenzene	ug/kg	1000	952	946	95	95	70-129	1	20	
Hexachloro-1,3-butadiene	ug/kg	1000	886	886	89	89	48-126	0	20	
Isopropylbenzene (Cumene)	ug/kg	1000	993	994	99	99	75-127	0	20	
Methyl-tert-butyl ether	ug/kg	1000	930	937	93	94	61-125	1	20	
Methylene Chloride	ug/kg	1000	940	999	94	100	60-126	6	20	
n-Butylbenzene	ug/kg	1000	984	1010	98	101	67-125	3	20	
n-Propylbenzene	ug/kg	1000	1030	1050	103	105	72-133	2	20	
Naphthalene	ug/kg	1000	913	917	91	92	35-147	0	20	
p-Isopropyltoluene	ug/kg	1000	1030	1050	103	105	69-127	3	20	
sec-Butylbenzene	ug/kg	1000	1040	1070	104	107	70-127	3	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

LABORATORY CONTROL SAMPLE & LCSD: 2217069 2217070

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Styrene	ug/kg	1000	913	937	91	94	73-125	3	20	
tert-Butylbenzene	ug/kg	1000	1010	1060	101	106	71-130	5	20	
Tetrachloroethene	ug/kg	1000	894	883	89	88	66-135	1	20	
Tetrahydrofuran	ug/kg	10000	9200	9060	92	91	66-145	2	20	
Toluene	ug/kg	1000	890	887	89	89	69-125	0	20	
trans-1,2-Dichloroethene	ug/kg	1000	829	829	83	83	55-135	0	20	
trans-1,3-Dichloropropene	ug/kg	1000	990	945	99	95	67-125	5	20	
Trichloroethene	ug/kg	1000	943	939	94	94	62-141	0	20	
Trichlorofluoromethane	ug/kg	1000	866	839	87	84	38-150	3	20	
Vinyl chloride	ug/kg	1000	715	762	72	76	57-131	6	20	
Xylene (Total)	ug/kg	3000	2890	2950	96	98	73-128	2	20	
1,2-Dichloroethane-d4 (S)	%.				99	101	75-129			
4-Bromofluorobenzene (S)	%.				102	104	75-125			
Toluene-d8 (S)	%.				97	95	75-125			

MATRIX SPIKE SAMPLE: 2217074

Parameter	Units	10342549001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1230	1110	90	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1230	1180	97	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1230	1130	92	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1230	1040	85	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1230	1060	87	41-150	
1,1-Dichloroethane	ug/kg	ND	1230	1130	92	53-131	
1,1-Dichloroethene	ug/kg	ND	1230	942	77	41-133	
1,1-Dichloropropene	ug/kg	ND	1230	1110	90	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1230	1060	87	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1230	1070	87	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1230	1060	86	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1230	1200	98	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3070	2440	80	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1230	1080	88	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1230	1140	93	59-136	
1,2-Dichloroethane	ug/kg	ND	1230	1140	93	52-133	
1,2-Dichloropropane	ug/kg	ND	1230	1150	94	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1230	1260	103	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1230	1110	90	60-137	
1,3-Dichloropropane	ug/kg	ND	1230	1080	88	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1230	1110	90	51-132	
2,2-Dichloropropane	ug/kg	ND	1230	1240	101	50-134	
2-Butanone (MEK)	ug/kg	ND	6130	4520	74	46-125	
2-Chlorotoluene	ug/kg	ND	1230	1230	100	60-141	
4-Chlorotoluene	ug/kg	ND	1230	1200	98	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6130	5020	82	47-146	
Acetone	ug/kg	ND	6130	5600	87	45-148	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

MATRIX SPIKE SAMPLE: 2217074

Parameter	Units	10342549001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/kg	ND	1230	1060	86	50-135	
Benzene	ug/kg	ND	1230	1100	90	41-134	
Bromobenzene	ug/kg	ND	1230	1100	90	59-134	
Bromochloromethane	ug/kg	ND	1230	1100	90	56-127	
Bromodichloromethane	ug/kg	ND	1230	1180	96	55-136	
Bromoform	ug/kg	ND	1230	1020	83	51-139	
Bromomethane	ug/kg	ND	1230	1090	88	35-148	
Carbon tetrachloride	ug/kg	ND	1230	1100	90	50-140	
Chlorobenzene	ug/kg	ND	1230	1090	89	59-133	
Chloroethane	ug/kg	ND	1230	1090	89	30-150	
Chloroform	ug/kg	ND	1230	1070	85	58-128	
Chloromethane	ug/kg	ND	1230	810	66	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1230	971	79	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1230	1140	93	57-133	
Dibromochloromethane	ug/kg	ND	1230	1060	86	54-141	
Dibromomethane	ug/kg	ND	1230	1090	89	53-134	
Dichlorodifluoromethane	ug/kg	ND	1230	664	54	30-125	
Dichlorofluoromethane	ug/kg	ND	1230	1060	86	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1230	1150	94	46-137	
Ethylbenzene	ug/kg	ND	1230	1140	93	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1230	1080	88	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1230	1170	96	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1230	1060	87	53-133	
Methylene Chloride	ug/kg	ND	1230	1120	87	42-135	
n-Butylbenzene	ug/kg	ND	1230	1200	98	52-140	
n-Propylbenzene	ug/kg	ND	1230	1280	104	57-142	
Naphthalene	ug/kg	ND	1230	1070	87	41-150	
p-Isopropyltoluene	ug/kg	ND	1230	1240	101	54-139	
sec-Butylbenzene	ug/kg	ND	1230	1280	104	30-150	
Styrene	ug/kg	ND	1230	1070	87	53-137	
tert-Butylbenzene	ug/kg	ND	1230	1240	101	59-138	
Tetrachloroethene	ug/kg	ND	1230	1100	90	53-138	
Tetrahydrofuran	ug/kg	ND	12300	10900	89	50-145	
Toluene	ug/kg	ND	1230	1050	85	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1230	978	80	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1230	1140	93	59-139	
Trichloroethene	ug/kg	ND	1230	1130	92	52-143	
Trichlorofluoromethane	ug/kg	ND	1230	987	80	30-150	
Vinyl chloride	ug/kg	ND	1230	851	69	36-127	
Xylene (Total)	ug/kg	ND	3670	3430	93	56-137	
1,2-Dichloroethane-d4 (S)	%.				98	75-129	
4-Bromofluorobenzene (S)	%.				106	75-125	
Toluene-d8 (S)	%.				95	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

SAMPLE DUPLICATE: 2217103

Parameter	Units	10342388004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	70200	47600	38	30	D6
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	23100	14900	43	30	D6
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	3310J		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	562	442	24	30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	11800	8880	28	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

SAMPLE DUPLICATE: 2217103

Parameter	Units	10342388004 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	4470	3190	33	30	D6
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	448J		30	
n-Butylbenzene	ug/kg	8140	5480	39	30	D6
n-Propylbenzene	ug/kg	10300	6860	40	30	D6
Naphthalene	ug/kg	10200	7740	27	30	
p-Isopropyltoluene	ug/kg	4380	2880	41	30	D6
sec-Butylbenzene	ug/kg	5130	3270	44	30	D6
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	120J		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	13900	11100	22	30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	74700	54800	31	30	
1,2-Dichloroethane-d4 (S)	%.	94	91	3		
4-Bromofluorobenzene (S)	%.	114	110	4		
Toluene-d8 (S)	%.	100	102	2		

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

QC Batch: MSV/34997 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10342549008, 10342549009, 10342549010

METHOD BLANK: 2217399 Matrix: Solid
Associated Lab Samples: 10342549008, 10342549009, 10342549010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	200	9.6	03/25/16 14:09	
1,1,1-Trichloroethane	ug/kg	ND	50.0	9.7	03/25/16 14:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	9.6	03/25/16 14:09	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.7	03/25/16 14:09	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11.8	03/25/16 14:09	
1,1-Dichloroethane	ug/kg	ND	50.0	9.6	03/25/16 14:09	
1,1-Dichloroethene	ug/kg	ND	50.0	11.4	03/25/16 14:09	
1,1-Dichloropropene	ug/kg	ND	50.0	10.0	03/25/16 14:09	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	19.4	03/25/16 14:09	
1,2,3-Trichloropropane	ug/kg	ND	200	13.8	03/25/16 14:09	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	9.1	03/25/16 14:09	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.0	03/25/16 14:09	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	38.7	03/25/16 14:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	8.0	03/25/16 14:09	
1,2-Dichlorobenzene	ug/kg	ND	50.0	12.1	03/25/16 14:09	
1,2-Dichloroethane	ug/kg	ND	50.0	11.2	03/25/16 14:09	
1,2-Dichloropropane	ug/kg	ND	50.0	10.2	03/25/16 14:09	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	9.7	03/25/16 14:09	
1,3-Dichlorobenzene	ug/kg	ND	50.0	12.2	03/25/16 14:09	
1,3-Dichloropropane	ug/kg	ND	50.0	7.8	03/25/16 14:09	
1,4-Dichlorobenzene	ug/kg	ND	50.0	10.6	03/25/16 14:09	
2,2-Dichloropropane	ug/kg	ND	200	20.2	03/25/16 14:09	
2-Butanone (MEK)	ug/kg	ND	250	83.0	03/25/16 14:09	
2-Chlorotoluene	ug/kg	ND	50.0	10.3	03/25/16 14:09	
4-Chlorotoluene	ug/kg	ND	50.0	9.4	03/25/16 14:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	63.6	03/25/16 14:09	
Acetone	ug/kg	ND	1000	224	03/25/16 14:09	
Allyl chloride	ug/kg	ND	200	12.2	03/25/16 14:09	
Benzene	ug/kg	ND	20.0	7.0	03/25/16 14:09	
Bromobenzene	ug/kg	ND	50.0	12.1	03/25/16 14:09	
Bromochloromethane	ug/kg	ND	50.0	9.6	03/25/16 14:09	
Bromodichloromethane	ug/kg	ND	200	8.9	03/25/16 14:09	
Bromoform	ug/kg	ND	500	11.9	03/25/16 14:09	
Bromomethane	ug/kg	ND	500	87.8	03/25/16 14:09	
Carbon tetrachloride	ug/kg	ND	200	12.1	03/25/16 14:09	
Chlorobenzene	ug/kg	ND	50.0	8.1	03/25/16 14:09	
Chloroethane	ug/kg	ND	500	23.9	03/25/16 14:09	
Chloroform	ug/kg	ND	50.0	8.4	03/25/16 14:09	
Chloromethane	ug/kg	ND	200	10.1	03/25/16 14:09	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	17.8	03/25/16 14:09	
cis-1,3-Dichloropropene	ug/kg	ND	200	5.2	03/25/16 14:09	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

METHOD BLANK: 2217399 Matrix: Solid
Associated Lab Samples: 10342549008, 10342549009, 10342549010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	200	7.7	03/25/16 14:09	
Dibromomethane	ug/kg	ND	50.0	11.8	03/25/16 14:09	
Dichlorodifluoromethane	ug/kg	ND	200	12.3	03/25/16 14:09	
Dichlorofluoromethane	ug/kg	ND	500	47.0	03/25/16 14:09	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	16.3	03/25/16 14:09	
Ethylbenzene	ug/kg	ND	50.0	7.5	03/25/16 14:09	
Hexachloro-1,3-butadiene	ug/kg	ND	250	21.3	03/25/16 14:09	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	9.1	03/25/16 14:09	
Methyl-tert-butyl ether	ug/kg	ND	50.0	9.4	03/25/16 14:09	
Methylene Chloride	ug/kg	ND	200	14.9	03/25/16 14:09	
n-Butylbenzene	ug/kg	ND	50.0	9.4	03/25/16 14:09	
n-Propylbenzene	ug/kg	ND	50.0	10.7	03/25/16 14:09	
Naphthalene	ug/kg	ND	200	72.1	03/25/16 14:09	
p-Isopropyltoluene	ug/kg	ND	50.0	8.7	03/25/16 14:09	
sec-Butylbenzene	ug/kg	ND	50.0	10.2	03/25/16 14:09	
Styrene	ug/kg	ND	50.0	7.9	03/25/16 14:09	
tert-Butylbenzene	ug/kg	ND	50.0	13.4	03/25/16 14:09	
Tetrachloroethene	ug/kg	ND	50.0	10.3	03/25/16 14:09	
Tetrahydrofuran	ug/kg	ND	2000	79.1	03/25/16 14:09	
Toluene	ug/kg	ND	50.0	9.6	03/25/16 14:09	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	8.2	03/25/16 14:09	
trans-1,3-Dichloropropene	ug/kg	ND	500	19.4	03/25/16 14:09	
Trichloroethene	ug/kg	ND	50.0	12.1	03/25/16 14:09	
Trichlorofluoromethane	ug/kg	ND	200	34.6	03/25/16 14:09	
Vinyl chloride	ug/kg	ND	20.0	9.0	03/25/16 14:09	
Xylene (Total)	ug/kg	ND	150	29.9	03/25/16 14:09	
1,2-Dichloroethane-d4 (S)	%.	103	75-129		03/25/16 14:09	
4-Bromofluorobenzene (S)	%.	99	75-125		03/25/16 14:09	
Toluene-d8 (S)	%.	99	75-125		03/25/16 14:09	

LABORATORY CONTROL SAMPLE & LCSD: 2217400 2217402

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	855	793	86	79	71-127	8	20	
1,1,1-Trichloroethane	ug/kg	1000	936	879	94	88	64-132	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	900	831	90	83	50-138	8	20	
1,1,2-Trichloroethane	ug/kg	1000	910	837	91	84	69-126	8	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	889	773	89	77	53-144	14	20	
1,1-Dichloroethane	ug/kg	1000	903	871	90	87	61-134	4	20	
1,1-Dichloroethene	ug/kg	1000	828	744	83	74	57-135	11	20	
1,1-Dichloropropene	ug/kg	1000	892	848	89	85	59-133	5	20	
1,2,3-Trichlorobenzene	ug/kg	1000	852	824	85	82	32-150	3	20	
1,2,3-Trichloropropane	ug/kg	1000	811	746	81	75	62-130	8	20	
1,2,4-Trichlorobenzene	ug/kg	1000	858	830	86	83	38-138	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

LABORATORY CONTROL SAMPLE & LCSD: 2217400 2217402

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	965	901	96	90	70-127	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1640	1600	65	64	40-141	2	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	877	849	88	85	69-130	3	20	
1,2-Dichlorobenzene	ug/kg	1000	918	841	92	84	72-125	9	20	
1,2-Dichloroethane	ug/kg	1000	784	756	78	76	62-125	4	20	
1,2-Dichloropropane	ug/kg	1000	880	816	88	82	67-126	8	20	
1,3,5-Trimethylbenzene	ug/kg	1000	963	900	96	90	71-129	7	20	
1,3-Dichlorobenzene	ug/kg	1000	887	832	89	83	72-126	6	20	
1,3-Dichloropropane	ug/kg	1000	894	828	89	83	70-125	8	20	
1,4-Dichlorobenzene	ug/kg	1000	863	812	86	81	70-126	6	20	
2,2-Dichloropropane	ug/kg	1000	876	849	88	85	48-134	3	20	
2-Butanone (MEK)	ug/kg	5000	3540	3490	71	70	38-149	1	20	
2-Chlorotoluene	ug/kg	1000	926	865	93	87	71-129	7	20	
4-Chlorotoluene	ug/kg	1000	938	884	94	88	72-128	6	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4270	4050	85	81	52-145	5	20	
Acetone	ug/kg	5000	5320	4040	106	81	65-142	27	20	R1
Allyl chloride	ug/kg	1000	794	684	79	68	54-125	15	20	
Benzene	ug/kg	1000	874	825	87	83	64-125	6	20	
Bromobenzene	ug/kg	1000	891	811	89	81	70-125	10	20	
Bromochloromethane	ug/kg	1000	868	822	87	82	68-125	5	20	
Bromodichloromethane	ug/kg	1000	772	757	77	76	67-125	2	20	
Bromoform	ug/kg	1000	816	788	82	79	56-127	4	20	
Bromomethane	ug/kg	1000	969	1030	97	103	34-137	6	20	
Carbon tetrachloride	ug/kg	1000	760	750	76	75	58-138	1	20	
Chlorobenzene	ug/kg	1000	896	830	90	83	72-125	8	20	
Chloroethane	ug/kg	1000	1010	1030	101	103	39-148	2	20	
Chloroform	ug/kg	1000	863	810	86	81	67-125	6	20	
Chloromethane	ug/kg	1000	618	748	62	75	54-125	19	20	
cis-1,2-Dichloroethene	ug/kg	1000	860	803	86	80	67-125	7	20	
cis-1,3-Dichloropropene	ug/kg	1000	748	731	75	73	62-127	2	20	
Dibromochloromethane	ug/kg	1000	786	742	79	74	67-125	6	20	
Dibromomethane	ug/kg	1000	847	795	85	80	63-129	6	20	
Dichlorodifluoromethane	ug/kg	1000	586	798	59	80	34-139	31	20	R1
Dichlorofluoromethane	ug/kg	1000	1660	1650	166	165	36-144	1	20	CH,L0
Diethyl ether (Ethyl ether)	ug/kg	1000	1140	1040	114	104	51-125	10	20	
Ethylbenzene	ug/kg	1000	927	869	93	87	70-129	6	20	
Hexachloro-1,3-butadiene	ug/kg	1000	863	829	86	83	48-126	4	20	
Isopropylbenzene (Cumene)	ug/kg	1000	997	916	100	92	75-127	8	20	
Methyl-tert-butyl ether	ug/kg	1000	810	782	81	78	61-125	4	20	
Methylene Chloride	ug/kg	1000	793	919	79	92	60-126	15	20	
n-Butylbenzene	ug/kg	1000	944	878	94	88	67-125	7	20	
n-Propylbenzene	ug/kg	1000	980	917	98	92	72-133	7	20	
Naphthalene	ug/kg	1000	717	716	72	72	35-147	0	20	
p-Isopropyltoluene	ug/kg	1000	1000	940	100	94	69-127	7	20	
sec-Butylbenzene	ug/kg	1000	994	932	99	93	70-127	6	20	
Styrene	ug/kg	1000	959	875	96	88	73-125	9	20	
tert-Butylbenzene	ug/kg	1000	974	909	97	91	71-130	7	20	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

LABORATORY CONTROL SAMPLE & LCSD: 2217400 2217402

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	930	869	93	87	66-135	7	20	
Tetrahydrofuran	ug/kg	10000	11600	8550	116	85	66-145	30	20	R1
Toluene	ug/kg	1000	865	794	87	79	69-125	9	20	
trans-1,2-Dichloroethene	ug/kg	1000	851	802	85	80	55-135	6	20	
trans-1,3-Dichloropropene	ug/kg	1000	831	775	83	77	67-125	7	20	
Trichloroethene	ug/kg	1000	916	873	92	87	62-141	5	20	
Trichlorofluoromethane	ug/kg	1000	1170	1170	117	117	38-150	0	20	CH
Vinyl chloride	ug/kg	1000	638	800	64	80	57-131	23	20	R1
Xylene (Total)	ug/kg	3000	2930	2690	98	90	73-128	9	20	
1,2-Dichloroethane-d4 (S)	%.				92	92	75-129			
4-Bromofluorobenzene (S)	%.				99	100	75-125			
Toluene-d8 (S)	%.				101	102	75-125			

MATRIX SPIKE SAMPLE: 2217403

Parameter	Units	10342602011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1220	1380	113	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1220	1380	113	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1220	1240	102	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1220	1260	104	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1220	1200	99	41-150	
1,1-Dichloroethane	ug/kg	ND	1220	1220	100	53-131	
1,1-Dichloroethene	ug/kg	ND	1220	1150	94	41-133	
1,1-Dichloropropene	ug/kg	ND	1220	1310	107	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1220	1350	110	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1220	1390	114	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1220	1330	109	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1220	1520	125	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3050	3250	107	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1220	1390	114	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1220	1390	114	59-136	
1,2-Dichloroethane	ug/kg	ND	1220	1280	105	52-133	
1,2-Dichloropropane	ug/kg	ND	1220	1350	110	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1220	1550	127	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1220	1400	115	60-137	
1,3-Dichloropropane	ug/kg	ND	1220	1330	109	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1220	1410	116	51-132	
2,2-Dichloropropane	ug/kg	ND	1220	1430	118	50-134	
2-Butanone (MEK)	ug/kg	ND	6090	5050	83	46-125	
2-Chlorotoluene	ug/kg	ND	1220	1500	123	60-141	
4-Chlorotoluene	ug/kg	ND	1220	1450	119	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6090	6350	104	47-146	
Acetone	ug/kg	ND	6090	6340	103	45-148	
Allyl chloride	ug/kg	ND	1220	1190	98	50-135	
Benzene	ug/kg	ND	1220	1300	107	41-134	

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(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

MATRIX SPIKE SAMPLE: 2217403

Parameter	Units	10342602011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1220	1380	114	59-134	
Bromochloromethane	ug/kg	ND	1220	1320	108	56-127	
Bromodichloromethane	ug/kg	ND	1220	1440	118	55-136	
Bromoform	ug/kg	ND	1220	1320	108	51-139	
Bromomethane	ug/kg	ND	1220	1220	100	35-148	
Carbon tetrachloride	ug/kg	ND	1220	1360	111	50-140	
Chlorobenzene	ug/kg	ND	1220	1360	111	59-133	
Chloroethane	ug/kg	ND	1220	1200	99	30-150	
Chloroform	ug/kg	ND	1220	1280	103	58-128	
Chloromethane	ug/kg	ND	1220	917	75	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1220	1290	106	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1220	1450	119	57-133	
Dibromochloromethane	ug/kg	ND	1220	1380	114	54-141	
Dibromomethane	ug/kg	ND	1220	1340	110	53-134	
Dichlorodifluoromethane	ug/kg	ND	1220	768	63	30-125	
Dichlorofluoromethane	ug/kg	ND	1220	1150	95	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1220	1250	103	46-137	
Ethylbenzene	ug/kg	ND	1220	1410	116	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1220	1570	129	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1220	1470	121	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1220	1280	105	53-133	
Methylene Chloride	ug/kg	ND	1220	1250	92	42-135	
n-Butylbenzene	ug/kg	ND	1220	1540	127	52-140	
n-Propylbenzene	ug/kg	ND	1220	1520	125	57-142	
Naphthalene	ug/kg	ND	1220	1410	116	41-150	
p-Isopropyltoluene	ug/kg	ND	1220	1580	129	54-139	
sec-Butylbenzene	ug/kg	ND	1220	1580	130	30-150	
Styrene	ug/kg	ND	1220	1420	116	53-137	
tert-Butylbenzene	ug/kg	ND	1220	1550	127	59-138	
Tetrachloroethene	ug/kg	ND	1220	1370	113	53-138	
Tetrahydrofuran	ug/kg	ND	12200	13500	111	50-145	
Toluene	ug/kg	ND	1220	1340	109	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1220	1210	100	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1220	1440	118	59-139	
Trichloroethene	ug/kg	ND	1220	1430	118	52-143	
Trichlorofluoromethane	ug/kg	ND	1220	1120	92	30-150	
Vinyl chloride	ug/kg	ND	1220	1050	86	36-127	
Xylene (Total)	ug/kg	ND	3650	4260	117	56-137	
1,2-Dichloroethane-d4 (S)	%.				93	75-129	
4-Bromofluorobenzene (S)	%.				107	75-125	
Toluene-d8 (S)	%.				99	75-125	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

SAMPLE DUPLICATE: 2217404

Parameter	Units	10342603004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	14J		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

SAMPLE DUPLICATE: 2217404

Parameter	Units	10342603004 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	79J		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	103	108	20		
4-Bromofluorobenzene (S)	%.	97	101	20		
Toluene-d8 (S)	%.	102	100	15		

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QUALIFIERS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/35005

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10342549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10342549001	**B43-S-49**	ASTM D2974	MPRP/62239		
10342549002	**B43-S-53**	ASTM D2974	MPRP/62239		
10342549003	**B43-S-71**	ASTM D2974	MPRP/62239		
10342549004	**B43-S-76**	ASTM D2974	MPRP/62239		
10342549005	**B27-S-43**	ASTM D2974	MPRP/62239		
10342549006	**B27-S-45**	ASTM D2974	MPRP/62239		
10342549007	**B27-S-55**	ASTM D2974	MPRP/62239		
10342549008	**B27-S-57**	ASTM D2974	MPRP/62269		
10342549009	**B27-S-63**	ASTM D2974	MPRP/62269		
10342549010	**B27-S-73**	ASTM D2974	MPRP/62269		
10342549001	**B43-S-49**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549002	**B43-S-53**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549003	**B43-S-71**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549004	**B43-S-76**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549005	**B27-S-43**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549006	**B27-S-45**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549007	**B27-S-55**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000
10342549008	**B27-S-57**	EPA 5035/5030B	MSV/34997	EPA 8260B	MSV/35005
10342549009	**B27-S-63**	EPA 5035/5030B	MSV/34997	EPA 8260B	MSV/35005
10342549010	**B27-S-73**	EPA 5035/5030B	MSV/34997	EPA 8260B	MSV/35005
10342549011	**Trip Blank**	EPA 5035/5030B	MSV/34987	EPA 8260B	MSV/35000

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

C0342549

Page: 1 of 1

1988907

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle, Suite 500 Mpls, MN 55402
Email To: TONY.CORYELL@AECOM.COM
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: TONY.CORYELL@AECOM.COM
Copy To: BENJAMIN.KLAUS@AECOM.COM
Purchase Order No.:
Project Name: SLP SOLVENT PLUME
Project Number: 60482513

Section C Invoice Information:

Attention: TONY CORYELL
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: CAROL DAVY
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER MPCA

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC by 8260	Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B43-S-49	WT	G			3/22/16	1255		3	1				2					2	1		001
2	B43-S-53	WT	G				1300		3	1				2					2	1		002
3	B43-S-71	WT	G				1305		3	1				2					2	1		003
4	B43-S-76	WT	G				1310		3	1				2					2	1		004
5	B27-S-43	WT	G			3/23/16	1110		3	1				2					2	1		005
6	B27-S-45	WT	G				1115		3	1				2					2	1		006
7	B27-S-55	WT	G				1120		3	1				2					2	1		007
8	B27-S-57	WT	G				1125		3	1				2					2	1		008
9	B27-S-63	WT	G				1130		3	1				2					2	1		009
10	B27-S-73	WT	G				1135		3	1				2					2	1		010
11	TRIP BLANK 5	WT	G			3/22/16	0700		1				1						1			011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MELISSA MEEUWSEN/AECOM	3/24/16	1014	[signature]	3-24-16	1014	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MELISSA MEEUWSEN
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 3/24/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 10342549

10342549

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: —

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☐ 151401164 ☐ B88A912167504 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.0 **Cooler Temp Corrected (°C):** 1.7 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** CMB 3/24/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Soil	☐ Yes	☑ No	☐ N/A	12. Sample B27-S-34 is sample B27-S-43 on COC
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carol Doug **Date:** 3/24/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 3/18/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16B1468

Report To: PL - MPCA - Metro MERLA-SF
Bill Scruton
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164
(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B32-W-(90-94)	16B1468-01	Wtr-Ground	02/25/16 10:15	02/26/16 13:33	5.5
B32-W-(73-77)	16B1468-02	Wtr-Ground	02/25/16 10:30	02/26/16 13:33	5.5
B29-W-(74-78)	16B1468-03	Wtr-Ground	02/25/16 13:00	02/26/16 13:33	5.5
B29-W-(50-54)	16B1468-04	Wtr-Ground	02/25/16 13:30	02/26/16 13:33	5.5
Dup-W-1	16B1468-05	Wtr-Ground	02/25/16 0:00	02/26/16 13:33	5.5
B30-W-(94-98)	16B1468-06	Wtr-Ground	02/25/16 15:00	02/26/16 13:33	5.5
B30-W-(41-45)	16B1468-07	Wtr-Ground	02/25/16 15:15	02/26/16 13:33	5.5
Trip Blank-1	16B1468-08	QC-BLANK	02/22/16 8:00	02/26/16 13:33	5.5

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013/09/09

Work Order Number: 3000015334 **COC Type:** Standard **Page:** 1 of 1

Turnaround Time: Standard **COC ID:**

16B1468

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377 — Program Code (MDH Lab Only): PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16 — Project Task Code: PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section	Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: HCl / VOC (EPA 8260)						Lab Sample No.	#
~~B32-W-~~					MLM														1
B32-W-(90-94)	Sample	2/25/16	1015			G	NW	WTR-GROUND			3	3						-01	2
B32-W-(73-77)	Sample	2/25/16	1030			G	NW	WTR-GROUND			3	3						-02	3
B29-W-(74-78)	Sample	2/25/16	1300			G	NW	WTR-GROUND			3	3						-03	4
B29-W-(50-54)	Sample	2/25/16	1330			G	NW	WTR-GROUND			3	3						-04	5
Dup-W-1	Sample	2/25/16	—			G	NW	WTR-GROUND			3	3						-05	6
B30-W-(94-98)	Sample	2/25/16	1500			G	NW	WTR-GROUND			3	3						-06	7
B30-W-(41-45)	Sample	2/25/16	1515			G	NW	WTR-GROUND			3	3						-07	8
Trip Blank-1	QC-TB	2/22/16	800			G	OT	QC-BLANK			2	2						-08	9
																			10

Sampled By: Melissa Meeuwsen **Sampler's Signature:** [signature] **Phone #:** 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
MELISSA MEEUWSEN / AECOM (Sampler)	2/26/16 / 13:32	[signature] / MDH	2/26/16 1333

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16B1468

Parcel Information

Date & time of receipt: FEB 26'16 13:33

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☑ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☐ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☑ None

☐ Other_____

Custody seals present: ☐ Yes ☑ No; Custody seals intact: ☐ Yes ☐ No ☑ N/A

Custody seal #_____. **Evidentiary samples identified**: ☐ Yes ☑ No

Packaging Information

Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☑ None ☐ Other_____

Cooling material: ☐ Wet ice ☐ Ice pack ☐ Gel pack ☐ Dry ice ☑ None ☐ Other_____

Condition of cooling material: ☐ Solid ☐ Partial ☐ Liquid; Liquid temperature: _____ °C ☑ N/A

Representative sample temperature: 5.5 °C **IR thermometer instrument used:** BS

Initials of person receiving parcel: WM

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☑ Yes ☐ No

Chain of custody type: ☑ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☑ No, **Sample survey results**: ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☑ Yes ☐ No

All sample containers are unique to the sample point listed on the chain of custody: ☑ Yes ☐ No

All samples have been received within the specified holding time for analysis: ☑ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☑ Yes ☐ No

If "No" has been checked, details are entered in the work order memo notes.

Initials of person logging in the work order request: BD

DOC-84
Revision: 1

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: None
Collected by: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/2016 8:41

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

The results in this report apply only to the samples analyzed.
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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-01RE1

Location ID: B32-W-(90-94)	Collect Date: 02/25/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:15	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:28*	*03/02/16 21:28*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*108*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:28*	*03/02/16 21:28*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*110*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:28*	*03/02/16 21:28*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:28*	*03/02/16 21:28*	*EPA 8260B*
Surrogate: Toluene-d8		*104*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:28*	*03/02/16 21:28*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-01RE1

Location ID: B32-W-(90-94)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 10:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Benzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
cis-1,2-Dichloroethene	Q4, D1	**930**	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Dichlorodifluoromethane	D1, Q4, Z-01	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Ethylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-01RE1

Location ID: B32-W-(90-94)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 10:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q4, D1	<	50	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Naphthalene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Tetrachloroethene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**87**	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B
Vinyl chloride	D1, Q4	**160**	25	ug/L	1	B6C0040	03/02/16 21:28	03/02/16 21:28	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-02RE1

Location ID: B32-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*103*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:05*	*03/02/16 21:05*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*106*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:05*	*03/02/16 21:05*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*111*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:05*	*03/02/16 21:05*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*96*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:05*	*03/02/16 21:05*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 21:05*	*03/02/16 21:05*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-02RE1

Location ID: B32-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Benzene	D1	**28**	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
cis-1,2-Dichloroethene	D1	**220**	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Dichlorodifluoromethane	D1, Z-01	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-02RE1

Location ID: B32-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
trans-1,2-Dichloroethene	D1	**48**	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B
Vinyl chloride	D1	**78**	5.0	ug/L	1	B6C0040	03/02/16 21:05	03/02/16 21:05	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-03RE1

Location ID: B29-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 13:30*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 13:30*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*111*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 13:30*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 13:30*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 13:30*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1,1-Trichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1,2-Trichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1-Dichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1-Dichloroethene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,1-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2,3-Trichloropropane	Q4, D1, Q2	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2-Dichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2-Dichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,2-Dichloropropane	Q4, D1, Q2	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,3-Dichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,3-Dichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
1,4-Dichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-03RE1

Location ID: B29-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
2-Chlorotoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
4-Chlorotoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Acetone	D1, Q2, Q4	<	100	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Allyl chloride	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Benzene	Q4, D1, Q2	**16**	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Bromobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Bromochloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Bromodichloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Bromoform	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Bromomethane	D1, L3, Q2, Q4, V4, Z-01a	<	10	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Carbon tetrachloride	Q4, D1, Q2	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Chlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Chlorodibromomethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Chloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Chloroform	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Chloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2, Q4	**150**	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Dibromomethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Dichlorodifluoromethane	Q2, Q4, Z-01, D1	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Dichlorofluoromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Ethyl ether	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Ethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Hexachlorobutadiene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-03RE1

Location ID: B29-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Isopropylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2, Q4	<	50	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1, Q2, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2, Q4	<	10	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Methylene chloride	D1, Q2, Q4	<	10	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Naphthalene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
n-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
n-Propylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
o-Xylene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
p&m-Xylene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
p-Isopropyltoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
sec-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Styrene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
tert-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Tetrachloroethene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2, Q4	<	50	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Toluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2, Q4	**22**	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Trichloroethene (TCE)	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Trichlorofluoromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B
Vinyl chloride	D1, Q2, Q4	**44**	5.0	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 13:30	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-04

Location ID: B29-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:46*	*03/02/16 15:46*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*107*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:46*	*03/02/16 15:46*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*109*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:46*	*03/02/16 15:46*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:46*	*03/02/16 15:46*	*EPA 8260B*
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:46*	*03/02/16 15:46*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B

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Public Health Laboratory
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-04

Location ID: B29-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Benzene	D1	**7.4**	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Chloroethane	D1, M1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
cis-1,2-Dichloroethene	D1	**42**	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Dichlorodifluoromethane	D1, Z-01	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B

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Analytical Results

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Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-04

Location ID: B29-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
trans-1,2-Dichloroethene	D1	**23**	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B
Vinyl chloride	D1	**27**	5.0	ug/L	1	B6C0040	03/02/16 15:46	03/02/16 15:46	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-05RE1

Location ID: Dup-W-1
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*103*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 18:02*	*03/02/16 18:02*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*106*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 18:02*	*03/02/16 18:02*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*109*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 18:02*	*03/02/16 18:02*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 18:02*	*03/02/16 18:02*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 18:02*	*03/02/16 18:02*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	25	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-05RE1

Location ID: Dup-W-1
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
2-Chlorotoluene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
4-Chlorotoluene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Acetone	D1, Q2	<	100	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Allyl chloride	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Benzene	D1, Q2	**5.8**	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Bromobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Bromochloromethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Bromodichloromethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Bromoform	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Bromomethane	D1, Q2	<	10	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Carbon tetrachloride	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Chlorobenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Chlorodibromomethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Chloroethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Chloroform	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Chloromethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	**29**	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Dibromomethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Dichlorodifluoromethane	D1, Q2, Z-01	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Ethyl ether	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Ethylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Hexachlorobutadiene	Q2, D1	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Isopropylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	50	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B

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Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-05RE1

Location ID: Dup-W-1
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	25	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	10	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Methylene chloride	D1, Q2	<	10	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Naphthalene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
n-Butylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
n-Propylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
o-Xylene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
p&m-Xylene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
sec-Butylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Styrene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
tert-Butylbenzene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Tetrachloroethene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	50	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Toluene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	**20**	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B
Vinyl chloride	D1, Q2	**19**	5.0	ug/L	1	B6C0040	03/02/16 18:02	03/02/16 18:02	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-06RE1

Location ID: B30-W-(94-98)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 14:15*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*106*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 14:15*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*110*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 14:15*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*96*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 14:15*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0076*	*03/03/16 11:11*	*03/03/16 14:15*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B

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Final Report
Analytical Results

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Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-06RE1

Location ID: B30-W-(94-98)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Allyl chloride	Q4, D1	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Benzene	D1, Q4	**29**	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Bromomethane	D1, L3, Q4, V4, Z-01a	<	50	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**1100**	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Dichlorodifluoromethane	D1, Q4, Z-01	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Ethylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-06RE1

Location ID: B30-W-(94-98)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Naphthalene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Tetrachloroethene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Tetrahydrofuran (THF)	Q4, D1	<	250	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**140**	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B
Vinyl chloride	D1, Q4	**170**	25	ug/L	1	B6C0076	03/03/16 11:11	03/03/16 14:15	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-07

Location ID: B30-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 16:53*	*03/02/16 16:53*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 16:53*	*03/02/16 16:53*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*109*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 16:53*	*03/02/16 16:53*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 16:53*	*03/02/16 16:53*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 16:53*	*03/02/16 16:53*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2,3-Trichloropropane	Q4, D1	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,3-Dichloropropane	Q4, D1	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-07

Location ID: B30-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**280**	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Dichlorodifluoromethane	D1, Q4, Z-01	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Dichlorofluoromethane	Q4, D1	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-07

Location ID: B30-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Styrene	Q4, D1	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**12**	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Trichloroethene (TCE)	D1, Q4	**17**	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B
Vinyl chloride	D1, Q4	**11**	5.0	ug/L	1	B6C0040	03/02/16 16:53	03/02/16 16:53	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-07RE1

Location ID: B30-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/25/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 19:57*	*03/02/16 19:57*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 19:57*	*03/02/16 19:57*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*109*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 19:57*	*03/02/16 19:57*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*95*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 19:57*	*03/02/16 19:57*	*EPA 8260B*
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 19:57*	*03/02/16 19:57*	*EPA 8260B*
Tetrachloroethene	D1, Q2	**400**	10	ug/L	1	B6C0040	03/02/16 19:57	03/02/16 19:57	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-08

Location ID: Trip Blank-1
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/22/16
Collect Time: 8:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:23*	*03/02/16 15:23*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*108*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:23*	*03/02/16 15:23*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*109*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:23*	*03/02/16 15:23*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*95*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:23*	*03/02/16 15:23*	*EPA 8260B*
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*1*	*B6C0040*	*03/02/16 15:23*	*03/02/16 15:23*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-08

Location ID: Trip Blank-1
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/22/16
Collect Time: 8:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Acetone		<	20	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Dichlorodifluoromethane	Z-01	<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/18/16 8:41

MDH Sample Number: 16B1468-08

Location ID: Trip Blank-1
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/22/16
Collect Time: 8:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0040	03/02/16 15:23	03/02/16 15:23	EPA 8260B

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: [none]
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Batch Summary

Samples in Batch: B6C0040 - EPA 5030B Preparation

16B1468-01RE1 16B1468-02RE1 16B1468-04 16B1468-05RE1 16B1468-07 16B1468-07RE1 16B1468-08

Samples in Batch: B6C0076 - EPA 5030B Preparation

16B1468-03RE1 16B1468-06RE1

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Blank (B6C0040-BLK1) **Prepared: 03/02/16 15:00 Analyzed: 03/02/16 15:00**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*108*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*107*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*96*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

Authorized by:

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Blank (B6C0040-BLK1) **Prepared: 03/02/16 15:00 Analyzed: 03/02/16 15:00**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane	Z-01	<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Blank (B6C0040-BLK1) — **Prepared: 03/02/16 15:00 Analyzed: 03/02/16 15:00**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0040-BS1) — **Prepared: 03/02/16 13:51 Analyzed: 03/02/16 13:51**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*104*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*110*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		10	1.0	ug/L	10		100	70-130		
1,1,1-Trichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,2,2-Tetrachloroethane		12	1.0	ug/L	10		116	70-130		
1,1,2-Trichloroethane		10	1.0	ug/L	10		100	70-130		
1,1,2-Trichlorotrifluoroethane		8.5	1.0	ug/L	10		85	70-130		
1,1-Dichloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1-Dichloroethene		8.9	1.0	ug/L	10		89	70-130		
1,1-Dichloropropene		9.5	1.0	ug/L	10		95	70-130		
1,2,3-Trichlorobenzene		11	1.0	ug/L	10		106	70-130		
1,2,3-Trichloropropane		11	1.0	ug/L	10		111	70-130		
1,2,4-Trichlorobenzene		11	1.0	ug/L	10		107	70-130		
1,2,4-Trimethylbenzene		11	1.0	ug/L	10		109	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		12	5.0	ug/L	10		116	70-130		
1,2-Dibromoethane (EDB)		10	1.0	ug/L	10		101	70-130		
1,2-Dichlorobenzene		10	1.0	ug/L	10		101	70-130		
1,2-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,2-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
1,3,5-Trimethylbenzene		11	1.0	ug/L	10		109	70-130		
1,3-Dichlorobenzene		10	1.0	ug/L	10		102	70-130		
1,3-Dichloropropane		10	1.0	ug/L	10		104	70-130		
1,4-Dichlorobenzene		10	1.0	ug/L	10		103	70-130		
2,2-Dichloropropane		9.5	1.0	ug/L	10		95	70-130		
2-Chlorotoluene		11	1.0	ug/L	10		108	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

LCS (B6C0040-BS1) **Prepared: 03/02/16 13:51 Analyzed: 03/02/16 13:51**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		11	1.0	ug/L	10		110	70-130		
Acetone		95	20	ug/L	100		95	70-130		
Allyl chloride		8.9	1.0	ug/L	10		89	70-130		
Benzene		9.2	1.0	ug/L	10		92	70-130		
Bromobenzene		10	1.0	ug/L	10		103	70-130		
Bromochloromethane		8.7	1.0	ug/L	10		87	70-130		
Bromodichloromethane		9.5	1.0	ug/L	10		95	70-130		
Bromoform		11	1.0	ug/L	10		113	70-130		
Bromomethane		9.8	2.0	ug/L	10		98	70-130		
Carbon tetrachloride		9.0	1.0	ug/L	10		90	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		11	1.0	ug/L	10		106	70-130		
Chloroethane		11	1.0	ug/L	10		105	70-130		
Chloroform		9.3	1.0	ug/L	10		93	70-130		
Chloromethane		9.8	1.0	ug/L	10		98	70-130		
cis-1,2-Dichloroethene		9.2	1.0	ug/L	10		92	70-130		
cis-1,3-Dichloropropene		10	1.0	ug/L	10		104	70-130		
Dibromomethane		9.4	1.0	ug/L	10		94	70-130		
Dichlorodifluoromethane	Z-01	8.5	1.0	ug/L	10		85	70-130		
Dichlorofluoromethane		9.8	1.0	ug/L	10		98	70-130		
Ethyl ether		9.1	1.0	ug/L	10		91	70-130		
Ethylbenzene		10	1.0	ug/L	10		100	70-130		
Hexachlorobutadiene		11	1.0	ug/L	10		105	70-130		
Isopropylbenzene		11	1.0	ug/L	10		110	70-130		
Methyl ethyl ketone (MEK)		47	10	ug/L	50		94	70-130		
Methyl isobutyl ketone (MIBK)		57	5.0	ug/L	50		115	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		8.9	2.0	ug/L	10		89	70-130		
Naphthalene		11	1.0	ug/L	10		108	70-130		
n-Butylbenzene		11	1.0	ug/L	10		110	70-130		
n-Propylbenzene		11	1.0	ug/L	10		111	70-130		
o-Xylene		9.9	1.0	ug/L	10		99	70-130		
p&m-Xylene		10	1.0	ug/L	10		100	70-130		
p-Isopropyltoluene		11	1.0	ug/L	10		108	70-130		
sec-Butylbenzene		11	1.0	ug/L	10		109	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

LCS (B6C0040-BS1) **Prepared: 03/02/16 13:51 Analyzed: 03/02/16 13:51**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.8	1.0	ug/L	10		98	70-130		
tert-Butylbenzene		11	1.0	ug/L	10		106	70-130		
Tetrachloroethene		9.6	1.0	ug/L	10		96	70-130		
Tetrahydrofuran (THF)		100	10	ug/L	100		101	70-130		
Toluene		9.9	1.0	ug/L	10		99	70-130		
trans-1,2-Dichloroethene		9.1	1.0	ug/L	10		91	70-130		
trans-1,3-Dichloropropene		11	1.0	ug/L	10		108	70-130		
Trichloroethene (TCE)		8.9	1.0	ug/L	10		89	70-130		
Trichlorofluoromethane		8.9	1.0	ug/L	10		89	70-130		
Vinyl chloride		9.3	1.0	ug/L	10		93	70-130		

Duplicate (B6C0040-DUP1) Source: 16B1468-07 **Prepared: 03/02/16 17:16 Analyzed: 03/02/16 17:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*110*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*108*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*96*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L		<				30
1,1,1-Trichloroethane	Q4, D1	<	5.0	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L		<				30
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L		<				30
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L		<				30
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L		<				30
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L		<				30
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L		<				30
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L		<				30
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L		<				30
1,2,4-Trimethylbenzene	Q4, D1	<	5.0	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L		<				30
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L		<				30
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L		<				30
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Duplicate (B6C0040-DUP1) Source: 16B1468-07 **Prepared: 03/02/16 17:16 Analyzed: 03/02/16 17:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L		<				30
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L		<				30
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L		<				30
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L		<				30
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L		<				30
2,2-Dichloropropane	Q4, D1	<	5.0	ug/L		<				30
2-Chlorotoluene	D1, Q4	<	5.0	ug/L		<				30
4-Chlorotoluene	D1, Q4	<	5.0	ug/L		<				30
Acetone	D1, Q4	<	100	ug/L		<				30
Allyl chloride	D1, Q4	<	5.0	ug/L		<				30
Benzene	D1, Q4	2.4	5.0	ug/L		<			2	30
Bromobenzene	D1, Q4	<	5.0	ug/L		<				30
Bromochloromethane	D1, Q4	<	5.0	ug/L		<				30
Bromodichloromethane	D1, Q4	<	5.0	ug/L		<				30
Bromoform	D1, Q4	<	5.0	ug/L		<				30
Bromomethane	D1, Q4	<	10	ug/L		<				30
Carbon tetrachloride	D1, Q4	<	5.0	ug/L		<				30
Chlorobenzene	D1, Q4	<	5.0	ug/L		<				30
Chlorodibromomethane	D1, Q4	<	5.0	ug/L		<				30
Chloroethane	D1, Q4	<	5.0	ug/L		<				30
Chloroform	Q4, D1	<	5.0	ug/L		<				30
Chloromethane	D1, Q4	<	5.0	ug/L		<				30
cis-1,2-Dichloroethene	D1, Q4	290	5.0	ug/L		280			3	30
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L		<				30
Dibromomethane	D1, Q4	<	5.0	ug/L		<				30
Dichlorodifluoromethane	D1, Q4, Z-01	<	5.0	ug/L		<				30
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L		<				30
Ethyl ether	D1, Q4	<	5.0	ug/L		<				30
Ethylbenzene	D1, Q4	<	5.0	ug/L		<				30
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L		<				30
Isopropylbenzene	D1, Q4	<	5.0	ug/L		<				30
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L		<				30
Methylene chloride	D1, Q4	<	10	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Duplicate (B6C0040-DUP1) Source: 16B1468-07 **Prepared: 03/02/16 17:16 Analyzed: 03/02/16 17:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1, Q4	<	5.0	ug/L		<				30
n-Butylbenzene	D1, Q4	<	5.0	ug/L		<				30
n-Propylbenzene	D1, Q4	<	5.0	ug/L		<				30
o-Xylene	D1, Q4	<	5.0	ug/L		<				30
p&m-Xylene	D1, Q4	<	5.0	ug/L		<				30
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L		<				30
sec-Butylbenzene	D1, Q4	<	5.0	ug/L		<				30
Styrene	D1, Q4	<	5.0	ug/L		<				30
tert-Butylbenzene	D1, Q4	<	5.0	ug/L		<				30
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L		<				30
Toluene	D1, Q4	<	5.0	ug/L		<				30
trans-1,2-Dichloroethene	D1, Q4	13	5.0	ug/L		12			8	30
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L		<				30
Trichloroethene (TCE)	D1, Q4	18	5.0	ug/L		17			2	30
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L		<				30
Vinyl chloride	D1, Q4	12	5.0	ug/L		11			9	30

Duplicate (B6C0040-DUP2) Source: 16B1468-07RE1 **Prepared: 03/02/16 20:20 Analyzed: 03/02/16 20:20**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*108*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*110*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*95*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*25*					
Tetrachloroethene	D1, Q2	390	10	ug/L		400			3	30

Matrix Spike (B6C0040-MS1) Source: 16B1468-04 **Prepared: 03/02/16 14:15 Analyzed: 03/02/16 14:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*104*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*108*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	11		ug/L	10	<	110	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Matrix Spike (B6C0040-MS1) Source: 16B1468-04 **Prepared: 03/02/16 14:15 Analyzed: 03/02/16 14:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1-Trichloroethane	D1	11		ug/L	10	<	106	70-130		
1,1,2,2-Tetrachloroethane	D1	12		ug/L	10	<	120	70-130		
1,1,2-Trichloroethane	D1	11		ug/L	10	<	112	70-130		
1,1,2-Trichlorotrifluoroethane	D1	10		ug/L	10	<	104	70-130		
1,1-Dichloroethane	D1	11		ug/L	10	<	108	70-130		
1,1-Dichloroethene	D1	11		ug/L	10	<	108	70-130		
1,1-Dichloropropene	D1	12		ug/L	10	<	115	70-130		
1,2,3-Trichlorobenzene	D1	12		ug/L	10	<	115	70-130		
1,2,3-Trichloropropane	D1	12		ug/L	10	<	119	70-130		
1,2,4-Trichlorobenzene	D1	11		ug/L	10	<	112	70-130		
1,2,4-Trimethylbenzene	D1	12		ug/L	10	<	123	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	12		ug/L	10	<	119	70-130		
1,2-Dibromoethane (EDB)	D1	11		ug/L	10	<	108	70-130		
1,2-Dichlorobenzene	D1	11		ug/L	10	<	111	70-130		
1,2-Dichloroethane	D1	10		ug/L	10	<	100	70-130		
1,2-Dichloropropane	D1	11		ug/L	10	<	106	70-130		
1,3,5-Trimethylbenzene	D1	12		ug/L	10	<	123	70-130		
1,3-Dichlorobenzene	D1	11		ug/L	10	<	113	70-130		
1,3-Dichloropropane	D1	12		ug/L	10	<	115	70-130		
1,4-Dichlorobenzene	D1	11		ug/L	10	<	113	70-130		
2,2-Dichloropropane	D1	11		ug/L	10	<	112	70-130		
2-Chlorotoluene	D1	12		ug/L	10	<	122	70-130		
4-Chlorotoluene	D1	12		ug/L	10	<	124	70-130		
Acetone	D1	110		ug/L	100	<	107	70-130		
Allyl chloride	D1	11		ug/L	10	<	106	70-130		
Benzene	D1	12		ug/L	10		107	70-130		
Bromobenzene	D1	11		ug/L	10	<	111	70-130		
Bromochloromethane	D1	9.7		ug/L	10	<	97	70-130		
Bromodichloromethane	D1	10		ug/L	10	<	105	70-130		
Bromoform	D1	12		ug/L	10	<	116	70-130		
Bromomethane	D1	9.2		ug/L	10	<	92	70-130		
Carbon tetrachloride	D1	11		ug/L	10	<	106	70-130		
Chlorobenzene	D1	11		ug/L	10	<	110	70-130		
Chlorodibromomethane	D1	11		ug/L	10	<	114	70-130		
Chloroethane	D1, M1	14		ug/L	10	<	136	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0040 - EPA 5030B Preparation

Matrix Spike (B6C0040-MS1) Source: 16B1468-04 **Prepared: 03/02/16 14:15 Analyzed: 03/02/16 14:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloroform	D1	11		ug/L	10	<	105	70-130		
Chloromethane	D1	12		ug/L	10	<	122	70-130		
cis-1,2-Dichloroethene	D1	19		ug/L	10		104	70-130		
cis-1,3-Dichloropropene	D1	11		ug/L	10	<	114	70-130		
Dibromomethane	D1	9.7		ug/L	10	<	97	70-130		
Dichlorodifluoromethane	D1, Z-01	11		ug/L	10	<	105	70-130		
Dichlorofluoromethane	D1	12		ug/L	10	<	116	70-130		
Ethyl ether	D1	9.7		ug/L	10	<	97	70-130		
Ethylbenzene	D1	12		ug/L	10	<	117	70-130		
Hexachlorobutadiene	D1	12		ug/L	10	<	123	70-130		
Isopropylbenzene	D1	13		ug/L	10	<	127	70-130		
Methyl ethyl ketone (MEK)	D1	53		ug/L	50	<	106	70-130		
Methyl isobutyl ketone (MIBK)	D1	61		ug/L	50	<	122	70-130		
Methyl tertiary butyl ether (MTBE)	D1	10		ug/L	10	<	101	70-130		
Methylene chloride	D1	9.6		ug/L	10	<	96	70-130		
Naphthalene	D1	12		ug/L	10	<	119	70-130		
n-Butylbenzene	D1	13		ug/L	10	<	128	70-130		
n-Propylbenzene	D1	13		ug/L	10	<	128	70-130		
o-Xylene	D1	11		ug/L	10	<	110	70-130		
p&m-Xylene	D1	12		ug/L	10	<	116	70-130		
p-Isopropyltoluene	D1	13		ug/L	10	<	127	70-130		
sec-Butylbenzene	D1	13		ug/L	10	<	128	70-130		
Styrene	D1	11		ug/L	10	<	110	70-130		
tert-Butylbenzene	D1	12		ug/L	10	<	122	70-130		
Tetrachloroethene	D1	11		ug/L	10	<	112	70-130		
Tetrahydrofuran (THF)	D1	110		ug/L	100		107	70-130		
Toluene	D1	12		ug/L	10	<	115	70-130		
trans-1,2-Dichloroethene	D1	15		ug/L	10		105	70-130		
trans-1,3-Dichloropropene	D1	12		ug/L	10	<	117	70-130		
Trichloroethene (TCE)	D1	11		ug/L	10	<	106	70-130		
Trichlorofluoromethane	D1	11		ug/L	10	<	109	70-130		
Vinyl chloride	D1	16		ug/L	10		111	70-130		

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0076 - EPA 5030B Preparation

Blank (B6C0076-BLK1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 13:07**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*107*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*110*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*96*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*105*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

Authorized by:

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0076 - EPA 5030B Preparation

Blank (B6C0076-BLK1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 13:07**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane	V4, Z-01a	<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane	Z-01	<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0076 - EPA 5030B Preparation

Blank (B6C0076-BLK1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 13:07**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0076-BS1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 12:44**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*108*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*107*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,1-Trichloroethane		9.0	1.0	ug/L	10		90	70-130		
1,1,2,2-Tetrachloroethane		11	1.0	ug/L	10		111	70-130		
1,1,2-Trichloroethane		10	1.0	ug/L	10		103	70-130		
1,1,2-Trichlorotrifluoroethane		8.0	1.0	ug/L	10		80	70-130		
1,1-Dichloroethane		9.5	1.0	ug/L	10		95	70-130		
1,1-Dichloroethene		8.5	1.0	ug/L	10		85	70-130		
1,1-Dichloropropene		9.4	1.0	ug/L	10		94	70-130		
1,2,3-Trichlorobenzene		10	1.0	ug/L	10		100	70-130		
1,2,3-Trichloropropane		11	1.0	ug/L	10		112	70-130		
1,2,4-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,4-Trimethylbenzene		10	1.0	ug/L	10		103	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		11	5.0	ug/L	10		110	70-130		
1,2-Dibromoethane (EDB)		10	1.0	ug/L	10		101	70-130		
1,2-Dichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2-Dichloroethane		9.4	1.0	ug/L	10		94	70-130		
1,2-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
1,3,5-Trimethylbenzene		10	1.0	ug/L	10		103	70-130		
1,3-Dichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,3-Dichloropropane		11	1.0	ug/L	10		108	70-130		
1,4-Dichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
2,2-Dichloropropane		9.0	1.0	ug/L	10		90	70-130		
2-Chlorotoluene		10	1.0	ug/L	10		105	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0076 - EPA 5030B Preparation

LCS (B6C0076-BS1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 12:44**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		11	1.0	ug/L	10		107	70-130		
Acetone		96	20	ug/L	100		96	70-130		
Allyl chloride		8.7	1.0	ug/L	10		87	70-130		
Benzene		9.2	1.0	ug/L	10		92	70-130		
Bromobenzene		9.6	1.0	ug/L	10		96	70-130		
Bromochloromethane		9.0	1.0	ug/L	10		90	70-130		
Bromodichloromethane		9.3	1.0	ug/L	10		93	70-130		
Bromoform		11	1.0	ug/L	10		105	70-130		
Bromomethane	L3, V4, Z-01a	6.7	2.0	ug/L	10		67	70-130		
Carbon tetrachloride		9.0	1.0	ug/L	10		90	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		10	1.0	ug/L	10		102	70-130		
Chloroethane		11	1.0	ug/L	10		109	70-130		
Chloroform		9.2	1.0	ug/L	10		92	70-130		
Chloromethane		8.8	1.0	ug/L	10		88	70-130		
cis-1,2-Dichloroethene		9.1	1.0	ug/L	10		91	70-130		
cis-1,3-Dichloropropene		10	1.0	ug/L	10		101	70-130		
Dibromomethane		9.1	1.0	ug/L	10		91	70-130		
Dichlorodifluoromethane	Z-01	8.4	1.0	ug/L	10		84	70-130		
Dichlorofluoromethane		9.7	1.0	ug/L	10		97	70-130		
Ethyl ether		9.1	1.0	ug/L	10		91	70-130		
Ethylbenzene		10	1.0	ug/L	10		100	70-130		
Hexachlorobutadiene		9.7	1.0	ug/L	10		97	70-130		
Isopropylbenzene		10	1.0	ug/L	10		105	70-130		
Methyl ethyl ketone (MEK)		49	10	ug/L	50		97	70-130		
Methyl isobutyl ketone (MIBK)		59	5.0	ug/L	50		118	70-130		
Methyl tertiary butyl ether (MTBE)		9.2	2.0	ug/L	10		92	70-130		
Methylene chloride		8.4	2.0	ug/L	10		84	70-130		
Naphthalene		10	1.0	ug/L	10		104	70-130		
n-Butylbenzene		11	1.0	ug/L	10		106	70-130		
n-Propylbenzene		11	1.0	ug/L	10		106	70-130		
o-Xylene		9.6	1.0	ug/L	10		96	70-130		
p&m-Xylene		10	1.0	ug/L	10		100	70-130		
p-Isopropyltoluene		10	1.0	ug/L	10		104	70-130		
sec-Butylbenzene		10	1.0	ug/L	10		105	70-130		

Authorized by:

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/18/16 8:41

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0076 - EPA 5030B Preparation

LCS (B6C0076-BS1) **Prepared: 03/03/16 11:11 Analyzed: 03/03/16 12:44**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.8	1.0	ug/L	10		98	70-130		
tert-Butylbenzene		10	1.0	ug/L	10		101	70-130		
Tetrachloroethene		9.2	1.0	ug/L	10		92	70-130		
Tetrahydrofuran (THF)		100	10	ug/L	100		100	70-130		
Toluene		9.7	1.0	ug/L	10		97	70-130		
trans-1,2-Dichloroethene		8.9	1.0	ug/L	10		89	70-130		
trans-1,3-Dichloropropene		11	1.0	ug/L	10		109	70-130		
Trichloroethene (TCE)		8.6	1.0	ug/L	10		86	70-130		
Trichlorofluoromethane		8.7	1.0	ug/L	10		87	70-130		
Vinyl chloride		8.9	1.0	ug/L	10		89	70-130		

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Public Health Laboratory, Minnesota Department of Health

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Final Report
Quality Control

Data Qualifiers and Definitions

Z-01a	There is no indication of out of control trends with this analyte; failure is random.
Z-01	Second-source calibration verification standard recovery was above method acceptance limits. Results are considered estimated.
V4	Calibration verification standard recovery was below method acceptance limits. See comments or additional qualifiers.
Q4	Sample received and analyzed without chemical preservation.
Q2	Sample received with head space.
M1	Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
L3	The spike recovery was below laboratory acceptance limits for the associated laboratory control sample and/or laboratory control sample duplicate.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 3/17/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16C0268

Report To: PL - MPCA - Metro MERLA-SF
Bill Scruton
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164
(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Work Order Comment: LocID on COC is incorrect. SP -06 should read B22-W-(76-80), SP -07 should read B22-W-(76-80)MS, SP -08 should read B22-W-(76-80)MSD per M. Meeuwsen. Run 8260 VOCs in Water per J. Jevnisek. EES 3/4/16

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B31-W-(80-84)	16C0268-01	Wtr-Ground	02/29/16 14:25	03/03/16 15:53	3.8
B31-W-(53-57)	16C0268-02	Wtr-Ground	02/29/16 14:40	03/03/16 15:53	3.8
B31-W-(48-52)	16C0268-03	Wtr-Ground	02/29/16 15:15	03/03/16 15:53	3.8
B31-W-(43-47)	16C0268-04	Wtr-Ground	02/29/16 15:30	03/03/16 15:53	3.8
B22-W-(86-90)	16C0268-05	Wtr-Ground	03/03/16 10:00	03/03/16 15:53	3.8
B22-W-(76-80)	16C0268-06	Wtr-Ground	03/03/16 10:30	03/03/16 15:53	3.8
B22-W-(76-80)MS	16C0268-07	Wtr-Ground	03/03/16 10:35	03/03/16 15:53	3.8
B22-W-(76-80)MSD	16C0268-08	Wtr-Ground	03/03/16 10:35	03/03/16 15:53	3.8
B21-W-(86-90)	16C0268-09	Wtr-Ground	03/03/16 13:15	03/03/16 15:53	3.8
B21-W-(75-79)	16C0268-10	Wtr-Ground	03/03/16 13:40	03/03/16 15:53	3.8
B21-W-(50-54)	16C0268-11	Wtr-Ground	03/03/16 14:10	03/03/16 15:53	3.8
B21-W-(44-48)	16C0268-12	Wtr-Ground	03/03/16 14:20	03/03/16 15:53	3.8
Trip Blank2	16C0268-13	QC-BLANK	02/29/16 7:00	03/03/16 15:53	3.8

Field ID	MDH Sample Number	Receiving Comments
B22-W-(76-80)	16C0268-06	LocID on COC does not match container. EES
B22-W-(76-80)MS	16C0268-07	LocID on COC does not match container. EES
B22-W-(76-80)MSD	16C0268-08	LocID on COC does not match container. EES

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form (version 2013.09)

Work Order Number: 3000015334 | COC Type: Standard | Page: 1 of

Turnaround Time: Standard | COC ID:

16C0268

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955
Project Manager:	Jennifer Jevnisek		
Potential Hazard?	N If yes, add information to Sampler Comments Section		

LABORATORY	
Lab Name:	Minnesota Department of Health
Address:	601 Robert Street N.
	St. Paul, MN 55155
Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

PRESERV.

ANALYSIS: VOC (EPA 8260)

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	VOC (EPA 8260)	Lab Sample No.	#
B31-W-(80-84)	Sample	2/29/16	1425			G	NW	WTR-GROUND			3	3	-01	1
B31-W-(53-57)	Sample	2/29/16	1440			G	NW	WTR-GROUND			3	3	-02	2
B31-W-(48-52)	Sample	2/29/16	1515			G	NW	WTR-GROUND			3	3	-03	3
B31-W-(43-47)	Sample	2/29/16	1530			G	NW	WTR-GROUND			3	3	-04	4
B22-W-(86-90)	Sample	3/3/16	1000			G	NW	WTR-GROUND			3	3	-05	5
B22-W-(80-76)	Sample	3/3/16	1030			G	NW	WTR-GROUND			3	3	-06	6
B22-W-(80-76)MS	Sample	3/3/16	1035			G	NW	WTR-GROUND			3	3	-07	7
B22-W-(80-76)MSD	Sample	3/3/16	1035			G	NW	WTR-GROUND			3	3	-08	8
B21-W-(86-90)	Sample	3/3/16	1315			G	NW	WTR-GROUND			3	3	-09	9
B21-W-(75-79)	Sample	3/3/16	1340			G	NW	WTR-GROUND			3	3	-10	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/3/16 1552	[signature] / MDH	3/3/16 15:53

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 **COC Type:** Standard **Page:** 1 of

Turnaround Time: Standard **COC ID:**

16C0268

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377 — Program Code (MDH Lab Only): PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16 — Project Task Code: PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section	Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B21-W-(50-54)	Sample	3/3/16	1410			G	NW	WTR-GROUND			3	3	-11	1
B21-W-(44-48)	Sample	3/3/16	1420			G	NW	WTR-GROUND			3	3	-12	2
TRIP BLANK2	QC	2/29/16	0900			G	NW	QC-BLANK			2	2	-13	3
														4
														5
														6
														7
														8
														9
														10

Sampled By: Melissa Meeuwsen **Sampler's Signature:** **Phone #:** 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) Melissa Meeuwsen / AECOM	3/3/16 1552	[signature] / MDH 3/3/16	15:53

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16C0268

Parcel Information

Date & time of receipt: MAR 3'16 15:53

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☒ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☒ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☐ None ☐ Other_____

Custody seals present: ☐ Yes ☒ No; Custody seals intact: ☐ Yes ☐ No ☒ N/A

Custody seal #_____. **Evidentiary samples identified:** ☐ Yes ☒ No

Packaging Information

Packing material: ☒ Bubble wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other_____

Cooling material: ☒ Wet ice ☐ Ice pack ☐ Gel pack ☐ Dry ice ☐ None ☐ Other_____

Condition of cooling material: ☐ Solid ☒ Partial ☐ Liquid; Liquid temperature: _____ °C ☐ N/A

Representative sample temperature: 3.8 °C **IR thermometer instrument used:** BS

Initials of person receiving parcel: MLB

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☒ Yes ☐ No

Chain of custody type: ☒ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☒ No, **Sample survey results:** ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☒ Yes ☐ No

All sample containers are unique to the sample point listed on the chain of custody: ☒ Yes ☐ No

All samples have been received within the specified holding time for analysis: ☒ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☐ Yes ☒ No

If "No" has been checked, details are entered in the work order memo notes.

Initials of person logging in the work order request: CB

DOC-84
Revision: 1

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected by: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/2016 15:06

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-01RE1

Location ID: B31-W-(80-84)	Collect Date: 02/29/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:25	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 17:25*	*03/11/16 17:25*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 17:25*	*03/11/16 17:25*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*106*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 17:25*	*03/11/16 17:25*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 17:25*	*03/11/16 17:25*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 17:25*	*03/11/16 17:25*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-01RE1

Location ID: B31-W-(80-84)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Benzene	D1, Q4	**36**	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**1500**	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Ethylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-01RE1

Location ID: B31-W-(80-84)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Naphthalene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Tetrachloroethene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**110**	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B
Vinyl chloride	D1, Q4	**190**	25	ug/L	1	B6C0251	03/11/16 17:25	03/11/16 17:25	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-02

Location ID: B31-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 12:31*	*03/11/16 12:31*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 12:31*	*03/11/16 12:31*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*105*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 12:31*	*03/11/16 12:31*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 12:31*	*03/11/16 12:31*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 12:31*	*03/11/16 12:31*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1-Dichloroethene	D1	**6.4**	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-02

Location ID: B31-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Benzene	D1	**9.1**	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-02

Location ID: B31-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
trans-1,2-Dichloroethene	D1	**79**	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B
Vinyl chloride	D1	**40**	5.0	ug/L	1	B6C0251	03/11/16 12:31	03/11/16 12:31	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-02RE1

Location ID: B31-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0251*	*03/11/16 17:48*	*03/11/16 17:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	%	*1*	*B6C0251*	*03/11/16 17:48*	*03/11/16 17:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*106*	*70-130*	%	*1*	*B6C0251*	*03/11/16 17:48*	*03/11/16 17:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6C0251*	*03/11/16 17:48*	*03/11/16 17:48*	*EPA 8260B*
Surrogate: Toluene-d8		*102*	*70-130*	%	*1*	*B6C0251*	*03/11/16 17:48*	*03/11/16 17:48*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**2000**	100	ug/L	1	B6C0251	03/11/16 17:48	03/11/16 17:48	EPA 8260B
Tetrachloroethene	D1	**520**	100	ug/L	1	B6C0251	03/11/16 17:48	03/11/16 17:48	EPA 8260B
Trichloroethene (TCE)	D1	**350**	100	ug/L	1	B6C0251	03/11/16 17:48	03/11/16 17:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-03RE1

Location ID: B31-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0251*	*03/11/16 13:17*	*03/11/16 13:17*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	%	*1*	*B6C0251*	*03/11/16 13:17*	*03/11/16 13:17*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	%	*1*	*B6C0251*	*03/11/16 13:17*	*03/11/16 13:17*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6C0251*	*03/11/16 13:17*	*03/11/16 13:17*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	%	*1*	*B6C0251*	*03/11/16 13:17*	*03/11/16 13:17*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-03RE1

Location ID: B31-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
cis-1,2-Dichloroethene	D1	**170**	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-03RE1

Location ID: B31-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0251	03/11/16 13:17	03/11/16 13:17	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-03RE2

Location ID: B31-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	%	*1*	*B6C0251*	*03/11/16 19:19*	*03/11/16 19:19*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	%	*1*	*B6C0251*	*03/11/16 19:19*	*03/11/16 19:19*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*106*	*70-130*	%	*1*	*B6C0251*	*03/11/16 19:19*	*03/11/16 19:19*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6C0251*	*03/11/16 19:19*	*03/11/16 19:19*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	%	*1*	*B6C0251*	*03/11/16 19:19*	*03/11/16 19:19*	*EPA 8260B*
Tetrachloroethene	D1	**9100**	1000	ug/L	1	B6C0251	03/11/16 19:19	03/11/16 19:19	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-04

Location ID: B31-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:46*	*03/11/16 11:46*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:46*	*03/11/16 11:46*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:46*	*03/11/16 11:46*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:46*	*03/11/16 11:46*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:46*	*03/11/16 11:46*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-04

Location ID: B31-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
cis-1,2-Dichloroethene	D1	**69**	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B

Authorized by:

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-04

Location ID: B31-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 02/29/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Tetrachloroethene	D1	**280**	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Trichloroethene (TCE)	D1	**9.2**	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B
Vinyl chloride	D1	**14**	5.0	ug/L	1	B6C0251	03/11/16 11:46	03/11/16 11:46	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-05RE1

Location ID: B22-W-(86-90)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:33*	*03/11/16 18:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*97*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:33*	*03/11/16 18:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*106*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:33*	*03/11/16 18:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:33*	*03/11/16 18:33*	*EPA 8260B*
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:33*	*03/11/16 18:33*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-05RE1

Location ID: B22-W-(86-90)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Benzene	D1, Q4	**19**	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**59**	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-05RE1

Location ID: B22-W-(86-90)	Collect Date: 03/03/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**15**	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B
Vinyl chloride	D1, Q4	**55**	5.0	ug/L	1	B6C0251	03/11/16 18:33	03/11/16 18:33	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-06RE1

Location ID: B22-W-(76-80)	Collect Date: 03/03/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:56*	*03/11/16 18:56*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:56*	*03/11/16 18:56*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*106*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:56*	*03/11/16 18:56*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:56*	*03/11/16 18:56*	*EPA 8260B*
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 18:56*	*03/11/16 18:56*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-06RE1

Location ID: B22-W-(76-80)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
cis-1,2-Dichloroethene	D1	**840**	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-06RE1

Location ID: B22-W-(76-80)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
trans-1,2-Dichloroethene	D1	**44**	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B
Vinyl chloride	D1	**80**	25	ug/L	1	B6C0251	03/11/16 18:56	03/11/16 18:56	EPA 8260B

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Public Health Laboratory
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-07RE1

Location ID: B22-W-(76-80)MS
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:00*	*03/15/16 16:00*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:00*	*03/15/16 16:00*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*115*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:00*	*03/15/16 16:00*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*96*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:00*	*03/15/16 16:00*	*EPA 8260B*
Surrogate: Toluene-d8		*104*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:00*	*03/15/16 16:00*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-07RE1

Location ID: B22-W-(76-80)MS
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
cis-1,2-Dichloroethene	D1	**790**	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-07RE1

Location ID: B22-W-(76-80)MS
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
trans-1,2-Dichloroethene	D1	**40**	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B
Vinyl chloride	D1	**73**	25	ug/L	1	B6C0281	03/15/16 16:00	03/15/16 16:00	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-08RE1

Location ID: B22-W-(76-80)MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:22*	*03/15/16 16:22*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:22*	*03/15/16 16:22*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*115*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:22*	*03/15/16 16:22*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:22*	*03/15/16 16:22*	*EPA 8260B*
Surrogate: Toluene-d8		*106*	*70-130*	%	*1*	*B6C0281*	*03/15/16 16:22*	*03/15/16 16:22*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-08RE1

Location ID: B22-W-(76-80)MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
cis-1,2-Dichloroethene	D1	**780**	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-08RE1

Location ID: B22-W-(76-80)MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: LocID on COC does not match container. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
trans-1,2-Dichloroethene	D1	**40**	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B
Vinyl chloride	D1	**74**	25	ug/L	1	B6C0281	03/15/16 16:22	03/15/16 16:22	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-09RE1

Location ID: B21-W-(86-90)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 16:45*	*03/15/16 16:45*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 16:45*	*03/15/16 16:45*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*114*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 16:45*	*03/15/16 16:45*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 16:45*	*03/15/16 16:45*	*EPA 8260B*
Surrogate: Toluene-d8		*104*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 16:45*	*03/15/16 16:45*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2,4-Trimethylbenzene	Q4, D1	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-09RE1

Location ID: B21-W-(86-90)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Benzene	Q4, D1	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**8.3**	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Ethyl ether	Q4, D1	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-09RE1

Location ID: B21-W-(86-90)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B
Vinyl chloride	Q4, D1	<	5.0	ug/L	1	B6C0281	03/15/16 16:45	03/15/16 16:45	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-10RE1

Location ID: B21-W-(75-79)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:08*	*03/15/16 17:08*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:08*	*03/15/16 17:08*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*116*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:08*	*03/15/16 17:08*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:08*	*03/15/16 17:08*	*EPA 8260B*
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:08*	*03/15/16 17:08*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-10RE1

Location ID: B21-W-(75-79)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Benzene	D1	**6.6**	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
cis-1,2-Dichloroethene	D1	**200**	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-10RE1

Location ID: B21-W-(75-79)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 13:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
trans-1,2-Dichloroethene	D1	**11**	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B
Vinyl chloride	D1	**30**	5.0	ug/L	1	B6C0281	03/15/16 17:08	03/15/16 17:08	EPA 8260B

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-11RE1

Location ID: B21-W-(50-54)	Collect Date: 03/03/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:30*	*03/15/16 17:30*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:30*	*03/15/16 17:30*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*116*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:30*	*03/15/16 17:30*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*95*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:30*	*03/15/16 17:30*	*EPA 8260B*
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:30*	*03/15/16 17:30*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-11RE1

Location ID: B21-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 14:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
cis-1,2-Dichloroethene	D1	**11**	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-11RE1

Location ID: B21-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 14:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Trichloroethene (TCE)	D1	**7.6**	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0281	03/15/16 17:30	03/15/16 17:30	EPA 8260B

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Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-12RE1

Location ID: B21-W-(44-48)	Collect Date: 03/03/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:53*	*03/15/16 17:53*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*95*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:53*	*03/15/16 17:53*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*115*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:53*	*03/15/16 17:53*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*95*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:53*	*03/15/16 17:53*	*EPA 8260B*
Surrogate: Toluene-d8		*107*	*70-130*	*%*	*1*	*B6C0281*	*03/15/16 17:53*	*03/15/16 17:53*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B

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Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-12RE1

Location ID: B21-W-(44-48)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/03/16
Collect Time: 14:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-12RE1

Location ID: B21-W-(44-48)	Collect Date: 03/03/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Tetrachloroethene	D1, Q4	**6.2**	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B
Vinyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0281	03/15/16 17:53	03/15/16 17:53	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-13

Location ID: Trip Blank2
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/29/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:24*	*03/11/16 11:24*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:24*	*03/11/16 11:24*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:24*	*03/11/16 11:24*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:24*	*03/11/16 11:24*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6C0251*	*03/11/16 11:24*	*03/11/16 11:24*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-13

Location ID: Trip Blank2
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/29/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Acetone		<	20	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B

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Environmental Laboratory Section
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 03/17/16 15:06

MDH Sample Number: 16C0268-13

Location ID: Trip Blank2
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 02/29/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0251	03/11/16 11:24	03/11/16 11:24	EPA 8260B

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Environmental Laboratory Section
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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Batch Summary

Samples in Batch: B6C0251 - EPA 5030B Preparation

16C0268-01RE1 16C0268-02 16C0268-02RE1 16C0268-03RE1 16C0268-03RE2 16C0268-04 16C0268-05RE1
16C0268-06RE1 16C0268-13

Samples in Batch: B6C0281 - EPA 5030B Preparation

16C0268-07RE1 16C0268-08RE1 16C0268-09RE1 16C0268-10RE1 16C0268-11RE1 16C0268-12RE1

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Blank (B6C0251-BLK1) **Prepared: 03/11/16 11:01 Analyzed: 03/11/16 11:01**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Blank (B6C0251-BLK1) **Prepared: 03/11/16 11:01 Analyzed: 03/11/16 11:01**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Blank (B6C0251-BLK1) **Prepared: 03/11/16 11:01 Analyzed: 03/11/16 11:01**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0251-BS1) **Prepared: 03/11/16 09:02 Analyzed: 03/11/16 09:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.6	1.0	ug/L	10		96	70-130		
1,1,1-Trichloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,2,2-Tetrachloroethane		9.8	1.0	ug/L	10		98	70-130		
1,1,2-Trichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,2-Trichlorotrifluoroethane		9.6	1.0	ug/L	10		96	70-130		
1,1-Dichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1-Dichloroethene		9.4	1.0	ug/L	10		94	70-130		
1,1-Dichloropropene		9.7	1.0	ug/L	10		97	70-130		
1,2,3-Trichlorobenzene		9.5	1.0	ug/L	10		95	70-130		
1,2,3-Trichloropropane		10	1.0	ug/L	10		100	70-130		
1,2,4-Trichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2,4-Trimethylbenzene		10	1.0	ug/L	10		100	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		10	5.0	ug/L	10		100	70-130		
1,2-Dibromoethane (EDB)		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloroethane		9.7	1.0	ug/L	10		97	70-130		
1,2-Dichloropropane		9.7	1.0	ug/L	10		97	70-130		
1,3,5-Trimethylbenzene		9.8	1.0	ug/L	10		98	70-130		
1,3-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,3-Dichloropropane		9.9	1.0	ug/L	10		99	70-130		
1,4-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
2,2-Dichloropropane		10	1.0	ug/L	10		104	70-130		
2-Chlorotoluene		10	1.0	ug/L	10		100	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

LCS (B6C0251-BS1) **Prepared: 03/11/16 09:02 Analyzed: 03/11/16 09:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		9.9	1.0	ug/L	10		99	70-130		
Acetone		100	20	ug/L	100		102	70-130		
Allyl chloride		9.6	1.0	ug/L	10		96	70-130		
Benzene		9.7	1.0	ug/L	10		97	70-130		
Bromobenzene		9.4	1.0	ug/L	10		94	70-130		
Bromochloromethane		9.4	1.0	ug/L	10		94	70-130		
Bromodichloromethane		9.7	1.0	ug/L	10		97	70-130		
Bromoform		9.3	1.0	ug/L	10		93	70-130		
Bromomethane		9.5	2.0	ug/L	10		95	70-130		
Carbon tetrachloride		9.6	1.0	ug/L	10		96	70-130		
Chlorobenzene		9.5	1.0	ug/L	10		95	70-130		
Chlorodibromomethane		9.4	1.0	ug/L	10		94	70-130		
Chloroethane		10	1.0	ug/L	10		100	70-130		
Chloroform		9.5	1.0	ug/L	10		95	70-130		
Chloromethane		12	1.0	ug/L	10		116	70-130		
cis-1,2-Dichloroethene		9.5	1.0	ug/L	10		95	70-130		
cis-1,3-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
Dibromomethane		9.6	1.0	ug/L	10		96	70-130		
Dichlorodifluoromethane		9.4	1.0	ug/L	10		94	70-130		
Dichlorofluoromethane		9.6	1.0	ug/L	10		96	70-130		
Ethyl ether		9.5	1.0	ug/L	10		95	70-130		
Ethylbenzene		9.7	1.0	ug/L	10		97	70-130		
Hexachlorobutadiene		9.9	1.0	ug/L	10		99	70-130		
Isopropylbenzene		9.8	1.0	ug/L	10		98	70-130		
Methyl ethyl ketone (MEK)		51	10	ug/L	50		102	70-130		
Methyl isobutyl ketone (MIBK)		52	5.0	ug/L	50		104	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		9.2	2.0	ug/L	10		92	70-130		
Naphthalene		9.7	1.0	ug/L	10		97	70-130		
n-Butylbenzene		10	1.0	ug/L	10		102	70-130		
n-Propylbenzene		10	1.0	ug/L	10		100	70-130		
o-Xylene		9.4	1.0	ug/L	10		94	70-130		
p&m-Xylene		9.7	1.0	ug/L	10		97	70-130		
p-Isopropyltoluene		9.8	1.0	ug/L	10		98	70-130		
sec-Butylbenzene		10	1.0	ug/L	10		100	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

LCS (B6C0251-BS1) **Prepared: 03/11/16 09:02 Analyzed: 03/11/16 09:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.5	1.0	ug/L	10		95	70-130		
tert-Butylbenzene		9.7	1.0	ug/L	10		97	70-130		
Tetrachloroethene		9.6	1.0	ug/L	10		96	70-130		
Tetrahydrofuran (THF)		100	10	ug/L	100		102	70-130		
Toluene		9.7	1.0	ug/L	10		97	70-130		
trans-1,2-Dichloroethene		9.6	1.0	ug/L	10		96	70-130		
trans-1,3-Dichloropropene		10	1.0	ug/L	10		100	70-130		
Trichloroethene (TCE)		9.6	1.0	ug/L	10		96	70-130		
Trichlorofluoromethane		9.7	1.0	ug/L	10		97	70-130		
Vinyl chloride		10	1.0	ug/L	10		102	70-130		

Duplicate (B6C0251-DUP1) Source: 16C0268-02 **Prepared: 03/11/16 12:54 Analyzed: 03/11/16 12:54**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L		<				30
1,1,1-Trichloroethane	D1	<	5.0	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L		<				30
1,1,2-Trichloroethane	D1	<	5.0	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L		<				30
1,1-Dichloroethane	D1	<	5.0	ug/L		<				30
1,1-Dichloroethene	D1	6.0	5.0	ug/L		6.4			6	30
1,1-Dichloropropene	D1	<	5.0	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L		<				30
1,2,3-Trichloropropane	D1	<	5.0	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L		<				30
1,2-Dichlorobenzene	D1	<	5.0	ug/L		<				30
1,2-Dichloroethane	D1	<	5.0	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Duplicate (B6C0251-DUP1) Source: 16C0268-02 **Prepared: 03/11/16 12:54 Analyzed: 03/11/16 12:54**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1	<	5.0	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L		<				30
1,3-Dichlorobenzene	D1	<	5.0	ug/L		<				30
1,3-Dichloropropane	D1	<	5.0	ug/L		<				30
1,4-Dichlorobenzene	D1	<	5.0	ug/L		<				30
2,2-Dichloropropane	D1	<	5.0	ug/L		<				30
2-Chlorotoluene	D1	<	5.0	ug/L		<				30
4-Chlorotoluene	D1	<	5.0	ug/L		<				30
Acetone	D1	<	100	ug/L		<				30
Allyl chloride	D1	<	5.0	ug/L		<				30
Benzene	D1	8.7	5.0	ug/L		9.1			4	30
Bromobenzene	D1	<	5.0	ug/L		<				30
Bromochloromethane	D1	<	5.0	ug/L		<				30
Bromodichloromethane	D1	<	5.0	ug/L		<				30
Bromoform	D1	<	5.0	ug/L		<				30
Bromomethane	D1	<	10	ug/L		<				30
Carbon tetrachloride	D1	<	5.0	ug/L		<				30
Chlorobenzene	D1	<	5.0	ug/L		<				30
Chlorodibromomethane	D1	<	5.0	ug/L		<				30
Chloroethane	D1	<	5.0	ug/L		<				30
Chloroform	D1	<	5.0	ug/L		<				30
Chloromethane	D1	<	5.0	ug/L		<				30
cis-1,3-Dichloropropene	D1	<	5.0	ug/L		<				30
Dibromomethane	D1	<	5.0	ug/L		<				30
Dichlorodifluoromethane	D1	<	5.0	ug/L		<				30
Dichlorofluoromethane	D1	<	5.0	ug/L		<				30
Ethyl ether	D1	<	5.0	ug/L		<				30
Ethylbenzene	D1	<	5.0	ug/L		<				30
Hexachlorobutadiene	D1	<	5.0	ug/L		<				30
Isopropylbenzene	D1	<	5.0	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	5.0	50	ug/L		<			29	30
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L		<				30
Methylene chloride	D1	<	10	ug/L		<				30
Naphthalene	D1	<	5.0	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Duplicate (B6C0251-DUP1) Source: 16C0268-02 **Prepared: 03/11/16 12:54 Analyzed: 03/11/16 12:54**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
n-Butylbenzene	D1	<	5.0	ug/L		<				30
n-Propylbenzene	D1	<	5.0	ug/L		<				30
o-Xylene	D1	<	5.0	ug/L		<				30
p&m-Xylene	D1	<	5.0	ug/L		<				30
p-Isopropyltoluene	D1	<	5.0	ug/L		<				30
sec-Butylbenzene	D1	<	5.0	ug/L		<				30
Styrene	D1	<	5.0	ug/L		<				30
tert-Butylbenzene	D1	<	5.0	ug/L		<				30
Tetrahydrofuran (THF)	D1	<	50	ug/L		<				30
Toluene	D1	<	5.0	ug/L		<				30
trans-1,2-Dichloroethene	D1	77	5.0	ug/L		79			3	30
trans-1,3-Dichloropropene	D1	<	5.0	ug/L		<				30
Trichlorofluoromethane	D1	<	5.0	ug/L		<				30
Vinyl chloride	D1	37	5.0	ug/L		40			7	30

Duplicate (B6C0251-DUP2) Source: 16C0268-02RE1 **Prepared: 03/11/16 18:10 Analyzed: 03/11/16 18:10**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*107*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*25*					
cis-1,2-Dichloroethene	D1	2000	100	ug/L		2000			0.4	30
Tetrachloroethene	D1	540	100	ug/L		520			4	30
Trichloroethene (TCE)	D1	360	100	ug/L		350			3	30

Matrix Spike (B6C0251-MS1) Source: 16C0268-04 **Prepared: 03/11/16 10:16 Analyzed: 03/11/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*97*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	52	5.0	ug/L	50	<	105	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Matrix Spike (B6C0251-MS1) Source: 16C0268-04 **Prepared: 03/11/16 10:16 Analyzed: 03/11/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1-Trichloroethane	D1	56	5.0	ug/L	50	<	112	70-130		
1,1,2,2-Tetrachloroethane	D1	53	5.0	ug/L	50	<	106	70-130		
1,1,2-Trichloroethane	D1	54	5.0	ug/L	50	<	108	70-130		
1,1,2-Trichlorotrifluoroethane	D1	57	5.0	ug/L	50	<	114	70-130		
1,1-Dichloroethane	D1	56	5.0	ug/L	50	<	112	70-130		
1,1-Dichloroethene	D1	56	5.0	ug/L	50	<	112	70-130		
1,1-Dichloropropene	D1	57	5.0	ug/L	50	<	114	70-130		
1,2,3-Trichlorobenzene	D1	52	5.0	ug/L	50	<	105	70-130		
1,2,3-Trichloropropane	D1	55	5.0	ug/L	50	<	109	70-130		
1,2,4-Trichlorobenzene	D1	54	5.0	ug/L	50	<	108	70-130		
1,2,4-Trimethylbenzene	D1	57	5.0	ug/L	50	<	113	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	53	25	ug/L	50	<	107	70-130		
1,2-Dibromoethane (EDB)	D1	51	5.0	ug/L	50	<	103	70-130		
1,2-Dichlorobenzene	D1	52	5.0	ug/L	50	<	103	70-130		
1,2-Dichloroethane	D1	53	5.0	ug/L	50	<	107	70-130		
1,2-Dichloropropane	D1	54	5.0	ug/L	50	<	108	70-130		
1,3,5-Trimethylbenzene	D1	56	5.0	ug/L	50	<	111	70-130		
1,3-Dichlorobenzene	D1	54	5.0	ug/L	50	<	108	70-130		
1,3-Dichloropropane	D1	54	5.0	ug/L	50	<	108	70-130		
1,4-Dichlorobenzene	D1	54	5.0	ug/L	50	<	108	70-130		
2,2-Dichloropropane	D1	61	5.0	ug/L	50	<	123	70-130		
2-Chlorotoluene	D1	56	5.0	ug/L	50	<	112	70-130		
4-Chlorotoluene	D1	55	5.0	ug/L	50	<	111	70-130		
Acetone	D1	540	100	ug/L	500	<	107	70-130		
Allyl chloride	D1	57	5.0	ug/L	50	<	114	70-130		
Benzene	D1	56	5.0	ug/L	50	<	112	70-130		
Bromobenzene	D1	52	5.0	ug/L	50	<	104	70-130		
Bromochloromethane	D1	50	5.0	ug/L	50	<	100	70-130		
Bromodichloromethane	D1	53	5.0	ug/L	50	<	106	70-130		
Bromoform	D1	49	5.0	ug/L	50	<	99	70-130		
Bromomethane	D1	46	10	ug/L	50	<	92	70-130		
Carbon tetrachloride	D1	56	5.0	ug/L	50	<	112	70-130		
Chlorobenzene	D1	53	5.0	ug/L	50	<	107	70-130		
Chlorodibromomethane	D1	51	5.0	ug/L	50	<	102	70-130		
Chloroethane	D1	54	5.0	ug/L	50	<	109	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0251 - EPA 5030B Preparation

Matrix Spike (B6C0251-MS1) Source: 16C0268-04 **Prepared: 03/11/16 10:16 Analyzed: 03/11/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloroform	D1	54	5.0	ug/L	50	<	108	70-130		
Chloromethane	D1	63	5.0	ug/L	50	<	126	70-130		
cis-1,2-Dichloroethene	D1	120	5.0	ug/L	50	69	107	70-130		
cis-1,3-Dichloropropene	D1	54	5.0	ug/L	50	<	108	70-130		
Dibromomethane	D1	52	5.0	ug/L	50	<	105	70-130		
Dichlorodifluoromethane	D1	59	5.0	ug/L	50	<	118	70-130		
Dichlorofluoromethane	D1	56	5.0	ug/L	50	<	111	70-130		
Ethyl ether	D1	51	5.0	ug/L	50	<	101	70-130		
Ethylbenzene	D1	55	5.0	ug/L	50	<	111	70-130		
Hexachlorobutadiene	D1	58	5.0	ug/L	50	<	115	70-130		
Isopropylbenzene	D1	56	5.0	ug/L	50	<	112	70-130		
Methyl ethyl ketone (MEK)	D1	270	50	ug/L	250	<	105	70-130		
Methyl isobutyl ketone (MIBK)	D1	270	25	ug/L	250	<	110	70-130		
Methyl tertiary butyl ether (MTBE)	D1	53	10	ug/L	50	<	105	70-130		
Methylene chloride	D1	51	10	ug/L	50	<	102	70-130		
Naphthalene	D1	54	5.0	ug/L	50	<	107	70-130		
n-Butylbenzene	D1	60	5.0	ug/L	50	<	120	70-130		
n-Propylbenzene	D1	58	5.0	ug/L	50	<	115	70-130		
o-Xylene	D1	54	5.0	ug/L	50	<	107	70-130		
p&m-Xylene	D1	55	5.0	ug/L	50	<	110	70-130		
p-Isopropyltoluene	D1	57	5.0	ug/L	50	<	115	70-130		
sec-Butylbenzene	D1	58	5.0	ug/L	50	<	116	70-130		
Styrene	D1	54	5.0	ug/L	50	<	107	70-130		
tert-Butylbenzene	D1	55	5.0	ug/L	50	<	111	70-130		
Tetrachloroethene	D1	330	5.0	ug/L	50	280	105	70-130		
Tetrahydrofuran (THF)	D1	540	50	ug/L	500	<	107	70-130		
Toluene	D1	55	5.0	ug/L	50	<	110	70-130		
trans-1,2-Dichloroethene	D1	58	5.0	ug/L	50	<	111	70-130		
trans-1,3-Dichloropropene	D1	55	5.0	ug/L	50	<	109	70-130		
Trichloroethene (TCE)	D1	64	5.0	ug/L	50	9.2	108	70-130		
Trichlorofluoromethane	D1	61	5.0	ug/L	50	<	122	70-130		
Vinyl chloride	D1	72	5.0	ug/L	50	14	114	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0281 - EPA 5030B Preparation

Blank (B6C0281-BLK1) **Prepared: 03/15/16 15:37 Analyzed: 03/15/16 15:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*96*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*114*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*107*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

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Batch B6C0281 - EPA 5030B Preparation

Blank (B6C0281-BLK1) **Prepared: 03/15/16 15:37 Analyzed: 03/15/16 15:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0281 - EPA 5030B Preparation

Blank (B6C0281-BLK1) **Prepared: 03/15/16 15:37 Analyzed: 03/15/16 15:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0281-BS1) **Prepared: 03/15/16 15:15 Analyzed: 03/15/16 15:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*115*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*106*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		9.2	1.0	ug/L	10		92	70-130		
1,1,2,2-Tetrachloroethane		11	1.0	ug/L	10		112	70-130		
1,1,2-Trichloroethane		10	1.0	ug/L	10		102	70-130		
1,1,2-Trichlorotrifluoroethane		8.6	1.0	ug/L	10		86	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,1-Dichloroethene		8.6	1.0	ug/L	10		86	70-130		
1,1-Dichloropropene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2,3-Trichloropropane		12	1.0	ug/L	10		119	70-130		
1,2,4-Trichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2,4-Trimethylbenzene		11	1.0	ug/L	10		107	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		12	5.0	ug/L	10		118	70-130		
1,2-Dibromoethane (EDB)		9.8	1.0	ug/L	10		98	70-130		
1,2-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2-Dichloroethane		10	1.0	ug/L	10		101	70-130		
1,2-Dichloropropane		10	1.0	ug/L	10		101	70-130		
1,3,5-Trimethylbenzene		11	1.0	ug/L	10		106	70-130		
1,3-Dichlorobenzene		10	1.0	ug/L	10		101	70-130		
1,3-Dichloropropane		11	1.0	ug/L	10		106	70-130		
1,4-Dichlorobenzene		10	1.0	ug/L	10		100	70-130		
2,2-Dichloropropane		10	1.0	ug/L	10		105	70-130		
2-Chlorotoluene		11	1.0	ug/L	10		110	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0281 - EPA 5030B Preparation

LCS (B6C0281-BS1) **Prepared: 03/15/16 15:15 Analyzed: 03/15/16 15:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		11	1.0	ug/L	10		111	70-130		
Acetone		120	20	ug/L	100		118	70-130		
Allyl chloride		9.3	1.0	ug/L	10		93	70-130		
Benzene		9.2	1.0	ug/L	10		92	70-130		
Bromobenzene		9.8	1.0	ug/L	10		98	70-130		
Bromochloromethane		8.3	1.0	ug/L	10		83	70-130		
Bromodichloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromoform		9.3	1.0	ug/L	10		93	70-130		
Bromomethane		9.0	2.0	ug/L	10		90	70-130		
Carbon tetrachloride		9.3	1.0	ug/L	10		93	70-130		
Chlorobenzene		9.5	1.0	ug/L	10		95	70-130		
Chlorodibromomethane		9.7	1.0	ug/L	10		97	70-130		
Chloroethane		9.2	1.0	ug/L	10		92	70-130		
Chloroform		9.4	1.0	ug/L	10		94	70-130		
Chloromethane		10	1.0	ug/L	10		101	70-130		
cis-1,2-Dichloroethene		9.2	1.0	ug/L	10		92	70-130		
cis-1,3-Dichloropropene		11	1.0	ug/L	10		106	70-130		
Dibromomethane		9.4	1.0	ug/L	10		94	70-130		
Dichlorodifluoromethane		8.8	1.0	ug/L	10		88	70-130		
Dichlorofluoromethane		9.3	1.0	ug/L	10		93	70-130		
Ethyl ether		9.5	1.0	ug/L	10		95	70-130		
Ethylbenzene		10	1.0	ug/L	10		100	70-130		
Hexachlorobutadiene		9.2	1.0	ug/L	10		92	70-130		
Isopropylbenzene		11	1.0	ug/L	10		106	70-130		
Methyl ethyl ketone (MEK)		58	10	ug/L	50		117	70-130		
Methyl isobutyl ketone (MIBK)		61	5.0	ug/L	50		123	70-130		
Methyl tertiary butyl ether (MTBE)		9.6	2.0	ug/L	10		96	70-130		
Methylene chloride		8.6	2.0	ug/L	10		86	70-130		
Naphthalene		10	1.0	ug/L	10		102	70-130		
n-Butylbenzene		11	1.0	ug/L	10		114	70-130		
n-Propylbenzene		11	1.0	ug/L	10		111	70-130		
o-Xylene		9.7	1.0	ug/L	10		97	70-130		
p&m-Xylene		9.5	1.0	ug/L	10		95	70-130		
p-Isopropyltoluene		11	1.0	ug/L	10		106	70-130		
sec-Butylbenzene		11	1.0	ug/L	10		108	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 03/17/16 15:06

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0281 - EPA 5030B Preparation

LCS (B6C0281-BS1) **Prepared: 03/15/16 15:15 Analyzed: 03/15/16 15:15**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.5	1.0	ug/L	10		95	70-130		
tert-Butylbenzene		10	1.0	ug/L	10		102	70-130		
Tetrachloroethene		8.9	1.0	ug/L	10		89	70-130		
Tetrahydrofuran (THF)		110	10	ug/L	100		113	70-130		
Toluene		10	1.0	ug/L	10		100	70-130		
trans-1,2-Dichloroethene		9.2	1.0	ug/L	10		92	70-130		
trans-1,3-Dichloropropene		11	1.0	ug/L	10		107	70-130		
Trichloroethene (TCE)		9.3	1.0	ug/L	10		93	70-130		
Trichlorofluoromethane		9.3	1.0	ug/L	10		93	70-130		
Vinyl chloride		9.4	1.0	ug/L	10		94	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Data Qualifiers and Definitions

Q4	Sample received and analyzed without chemical preservation.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 3/31/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16C0573

Report To: PL - MPCA - Metro MERLA-SF
Bill Scruton
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164
(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Work Order Comment: SP-01 thru SP-20 and SP-34 were out of temp (6.6), OK to run per J. Jevnisek. SP-21 thru 33 recd. @ a temp. > than 6 deg. C (6.6 C); however they were received the same day as collection and on ice per EPA requirements . -CTS 03/14/16

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B36-W-(94.5-98.5)	16C0573-01	Wtr-Ground	03/09/16 10:45	03/10/16 14:26	6.6
B36-W-(62-66)	16C0573-02	Wtr-Ground	03/09/16 11:10	03/10/16 14:26	6.6
B36-W-(58-62)	16C0573-03	Wtr-Ground	03/09/16 11:25	03/10/16 14:26	6.6
B36-W-(58-62 MS)	16C0573-04	Wtr-Ground	03/09/16 11:30	03/10/16 14:26	6.6
B36-W-(58-62 MSD)	16C0573-05	Wtr-Ground	03/09/16 11:30	03/10/16 14:26	6.6
B36-W-(54-58)	16C0573-06	Wtr-Ground	03/09/16 11:45	03/10/16 14:26	6.6
B36-W-(50-54)	16C0573-07	Wtr-Ground	03/09/16 12:00	03/10/16 14:26	6.6
B36-W-(46-50)	16C0573-08	Wtr-Ground	03/09/16 12:15	03/10/16 14:26	6.6
DUP-W-2	16C0573-09	Wtr-Ground	03/09/16 12:10	03/10/16 14:26	6.6
DUP-W-3	16C0573-10	Wtr-Ground	03/09/16 12:20	03/10/16 14:26	6.6
B35-W-(96-100)	16C0573-11	Wtr-Ground	03/09/16 13:50	03/10/16 14:26	6.6
B35-W-(62-66)	16C0573-12	Wtr-Ground	03/09/16 14:15	03/10/16 14:26	6.6
B35-W-(58-62)	16C0573-13	Wtr-Ground	03/09/16 14:25	03/10/16 14:26	6.6
B35-W-(58-62 MS)	16C0573-14	Wtr-Ground	03/09/16 14:30	03/10/16 14:26	6.6
B35-W-(58-62) MSD	16C0573-15	Wtr-Ground	03/09/16 14:30	03/10/16 14:26	6.6
B35-W-(54-58)	16C0573-16	Wtr-Ground	03/09/16 14:40	03/10/16 14:26	6.6
B35-W-(50-54)	16C0573-17	Wtr-Ground	03/09/16 14:50	03/10/16 14:26	6.6
B35-W-(46-50)	16C0573-18	Wtr-Ground	03/09/16 15:05	03/10/16 14:26	6.6
DUP-W-4	16C0573-19	Wtr-Ground	03/09/16 14:55	03/10/16 14:26	6.6
DUP-W-5	16C0573-20	Wtr-Ground	03/09/16 15:10	03/10/16 14:26	6.6
B28-W-(77-81)	16C0573-21	Wtr-Ground	03/10/16 9:50	03/10/16 14:26	6.6
B28-W-(69-73)	16C0573-22	Wtr-Ground	03/10/16 10:05	03/10/16 14:26	6.6
B28-W-(61-65)	16C0573-23	Wtr-Ground	03/10/16 10:25	03/10/16 14:26	6.6
B28-W-(53-57)	16C0573-24	Wtr-Ground	03/10/16 10:35	03/10/16 14:26	6.6
B28-W-(39-43)	16C0573-25	Wtr-Ground	03/10/16 10:45	03/10/16 14:26	6.6
B26-W-(77-81)	16C0573-26	Wtr-Ground	03/10/16 12:25	03/10/16 14:26	6.6
B26-W-(70-74)	16C0573-27	Wtr-Ground	03/10/16 12:35	03/10/16 14:26	6.6
B26-W-(60-64)	16C0573-28	Wtr-Ground	03/10/16 12:45	03/10/16 14:26	6.6
B26-W-(54-58)	16C0573-29	Wtr-Ground	03/10/16 12:55	03/10/16 14:26	6.6
B26-W-(50-54)	16C0573-30	Wtr-Ground	03/10/16 13:00	03/10/16 14:26	6.6
B26-W-(48-44)	16C0573-31	Wtr-Ground	03/10/16 13:10	03/10/16 14:26	6.6

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name: None
City: None
Generated: 03/31/16 16:03

DUP-W-6	16C0573-32	Wtr-Ground	03/10/16 13:20	03/10/16 14:26	6.6
B26-W-(31-35)	16C0573-33	Wtr-Ground	03/10/16 13:35	03/10/16 14:26	6.6
TRIP BLANK-3	16C0573-34	QC-BLANK	03/09/16 7:00	03/10/16 14:26	6.6

Field ID	MDH Sample Number	Receiving Comments
B36-W-(94.5-98.5)	16C0573-01	Temp > 6.0 deg C. -CTS
B36-W-(62-66)	16C0573-02	Temp > 6.0 deg C. -CTS
B36-W-(58-62)	16C0573-03	Temp > 6.0 deg C. -CTS
B36-W-(58-62 MS)	16C0573-04	Temp > 6.0 deg C. -CTS
B36-W-(58-62 MSD)	16C0573-05	Temp > 6.0 deg C. -CTS
B36-W-(54-58)	16C0573-06	Temp > 6.0 deg C. -CTS
B36-W-(50-54)	16C0573-07	Temp > 6.0 deg C. -CTS
B36-W-(46-50)	16C0573-08	Temp > 6.0 deg C. -CTS
DUP-W-2	16C0573-09	Temp > 6.0 deg C. -CTS
DUP-W-3	16C0573-10	Temp > 6.0 deg C. -CTS
B35-W-(96-100)	16C0573-11	Temp > 6.0 deg C. -CTS
B35-W-(62-66)	16C0573-12	Temp > 6.0 deg C. -CTS
B35-W-(58-62)	16C0573-13	Temp > 6.0 deg C. -CTS
B35-W-(58-62 MS)	16C0573-14	Temp > 6.0 deg C. -CTS
B35-W-(58-62) MSD	16C0573-15	Temp > 6.0 deg C. -CTS
B35-W-(54-58)	16C0573-16	Temp > 6.0 deg C. -CTS
B35-W-(50-54)	16C0573-17	Temp > 6.0 deg C. -CTS
B35-W-(46-50)	16C0573-18	Temp > 6.0 deg C. -CTS
DUP-W-4	16C0573-19	Temp > 6.0 deg C. -CTS
DUP-W-5	16C0573-20	Temp > 6.0 deg C. -CTS

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form

version 2013.0909

Work Order Number: 3000015334 | COC Type: Standard | Page

Turnaround Time: Standard | COC ID:

16C0573

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only): PL	Lab Name: Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code: PRJ07955	Address: 601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section		Phone No: 651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS / PRESERV.	VOC (EPA 8260)						Lab Sample No.	#
B36-W-(94.5-98.5)	Sample	3/9/16	1045			G	NW	WTR-GROUND			3		3						-01	1
B36-W-(62-66)	Sample	3/9/16	1110			G	NW	WTR-GROUND			3		3						-02	2
B36-W-(58-62)	Sample	3/9/16	1125			G	NW	WTR-GROUND			3		3						-03	3
B36-W-(58-62)	MS Sample	3/9/16	1130			G	NW	WTR-GROUND			3		3						-04	4
B36-W-(58-62)	MSD Sample	3/9/16	1130			G	NW	WTR-GROUND			3		3						-05	5
B36-W-(54-58)	Sample	3/9/16	1145			G	NW	WTR-GROUND			3		3						-06	6
B36-W-(50-54)	Sample	3/9/16	1200			G	NW	WTR-GROUND			3		3						-07	7
B36-W-(46-50)	Sample	3/9/16	1215			G	NW	WTR-GROUND			3		3						-08	8
Dup-W-2	QC-FR	3/9/16	1210			G	NW	WTR-GROUND			3		3						-09	9
Dup-W-3	QC-FR	3/9/16	1220			G	NW	WTR-GROUND			3		3						-10	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/10/16 / 1425	[signature] / MPH 3/10/16	1426

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013/09/09

Work Order Number: 3000015334 | COC Type: Standard | Page: 2 of 4

Turnaround Time: Standard | COC ID:

16C0573

PROJECT/CLIENT INFO				LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek				St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section			Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code (MW)	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS PRESERV.	VOC (EPA 8260)						Lab Sample No.	#
B35-W-(96-100)	SAMPLE	3/9/16	1350			G	WTR GROUND	NW			3		3						-11	1
B35-W-(62-66)	SAMPLE	3/9/16	1415			G	WTR GROUND	NW			3		3						-12	2
B35-W-(58-62)	SAMPLE	3/9/16	1425			G	WTR GROUND	NW			3		3						-13	3
B35-W-(58-62)MS	SAMPLE	3/9/16	1430			G	WTR GROUND	NW			3		3						-14	4
B35-W-(58-62)MSD	SAMPLE	3/9/16	1430			G	WTR GROUND	NW			3		3						-15	5
B35-W-(54-58)	SAMPLE	3/9/16	1440			G	WTR GROUND	NW			3		3						-16	6
B35-W-(50-54)	SAMPLE	3/9/16	1450			G	WTR GROUND	NW			3		3						-17	7
B35-W-(46-50)	SAMPLE	3/9/16	1505			G	WTR GROUND	NW			3		3						-18	8
Dup-W-4	QC-FR	3/9/16	1455			G	WTR GROUND	NW			3		3						-19	9
Dup-W-5	QC-FR	3/9/16	1510			G	WTR GROUND	NW			3		3						-20	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) Melissa Meeuwsen / AECOM	3/10/16 / 1425	WM / MDH 3/10/16	1426

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 | COC Type: Standard | Page: 3 of 4

Turnaround Time: Standard | COC ID:

16C0573

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only): PL	Lab Name: Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code: PRJ07955	Address: 601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section		Phone No: 651-201-5058

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
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WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

SAMPLE DETAILS / ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)						Lab Sample No.	#
B28-W-(77-81)	Sample	3/10/16	0950			G	NW	WTR GROUND			3	3						-21	1
B28-W-(69-73)	Sample	3/10/16	1005			G	NW	WTR GROUND			3	3						-22	2
B28-W-(61-65)	Sample	3/10/16	1025			G	NW	WTR GROUND			3	3						-23	3
B28-W-(53-57)	Sample	3/10/16	1035			G	NW	WTR GROUND			3	3						-24	4
B28-W-(39-43)	Sample	3/10/16	1045			G	NW	WTR GROUND			3	3						-25	5
B26-W-(77-81)	Sample	3/10/16	1225			G	NW	WTR GROUND			3	3						-26	6
B26-W-(70-74)	Sample	3/10/16	1235			G	NW	WTR GROUND			3	3						-27	7
B26-W-(60-64)	Sample	3/10/16	1245			G	NW	WTR GROUND			3	3						-28	8
B26-W-(54-58)	Sample	3/10/16	1255			G	NW	WTR GROUND			3	3						-29	9
B26-W-(50-54)	Sample	3/10/16	1300			G	NW	WTR GROUND			3	3						-30	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/10/16/1425	WM / MDH 3/10/16	1426

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.0909

Work Order Number: 3000015334 | COC Type: Standard | Page: 4 of 4

Turnaround Time: Standard | COC ID:

16C0573

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377 — Program Code (MDH Lab Only): PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16 — Project Task Code: PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N — If yes, add information to Sampler Comments Section	Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

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TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B26-W-(48-44)	SAMPLE	3/10/16	1310			G	NW	WTR-GROUND			3	3	-31	1
Dup-W-6	QC FR	3/10/16	1320			G	NW	WTR GROUND			3	3	-32	2
B26-W-(31-35)	SAMPLE	3/10/16	1335			G	NW	WTR-GROUND			3	3	-33	3
TRIP BLANK3	QC-TB	3/9/16	0700			G	NW	QC-BLANK			3	3	-34	4
														5
														6
														7
														8
														9
														10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/10/16/1425	[signature] 3/10/16	1425

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16C0573

Parcel Information

Date & time of receipt: MAR 10'16 14:26

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☒ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☒ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☐ None ☐ Other_____

Custody seals present: ☐ Yes ☒ No; Custody seals intact: ☐ Yes ☐ No ☒ N/A

Custody seal # _____. **Evidentiary samples identified:** ☐ Yes ☒ No

Packaging Information

Packing material: ☐ Bubble wrap ☒ Styrofoam ☐ Paper ☐ None ☐ Other_____

Cooling material: ☒ Wet ice ☐ Ice-pack( ) ☐ Gel pack( ) ☐ Dry ice ☐ None ☐ Other_____

Condition of cooling material: ☒ Solid ☐ Partial ☐ Liquid; Liquid temperature: _____ °C ☐ N/A

Representative sample temperature: 6-6 °C **IR thermometer instrument used:** BS

Initials of person receiving parcel: WM

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☒ Yes ☐ No

Chain of custody type: ☒ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☒ No, **Sample survey results:** ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☒ Yes ☐ No

Samples received with evidence of freezing: ☐ Yes ☒ No

All sample containers are unique to the sample point listed on the chain of custody: ☒ Yes ☐ No

All samples have been received within the specified holding time for analysis: ☒ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☒ Yes ☐ No

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request: WM

DOC-84
Revision: 2

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: None
Collected by: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/2016 16:03

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-01

Location ID: B36-W-(94.5-98.5)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 12:56*	*03/18/16 12:56*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 12:56*	*03/18/16 12:56*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 12:56*	*03/18/16 12:56*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 12:56*	*03/18/16 12:56*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 12:56*	*03/18/16 12:56*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-01

Location ID: B36-W-(94.5-98.5)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
cis-1,2-Dichloroethene	D1	**2800**	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-01

Location ID: B36-W-(94.5-98.5)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Tetrachloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
trans-1,2-Dichloroethene	D1	**140**	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B
Vinyl chloride	D1	**190**	100	ug/L	1	B6C0410	03/18/16 12:56	03/18/16 12:56	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-02RE1

Location ID: B36-W-(62-66)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:31*	*03/22/16 09:31*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:31*	*03/22/16 09:31*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:31*	*03/22/16 09:31*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:31*	*03/22/16 09:31*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:31*	*03/22/16 09:31*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1,1-Trichloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1,2,2-Tetrachloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1,2-Trichloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1,2-Trichlorotrifluoroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1-Dichloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1-Dichloroethene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,1-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2,3-Trichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2,3-Trichloropropane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2,4-Trichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2,4-Trimethylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q2, D1	<	120	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2-Dibromoethane (EDB)	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2-Dichloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,2-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,3,5-Trimethylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,3-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,3-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
1,4-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-02RE1

Location ID: B36-W-(62-66)
Field Name: None
Sampling Point: None
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Collect Date: 03/09/16
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Matrix: Wtr-Ground

Field Residual Chlorine Result: None
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Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
2-Chlorotoluene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
4-Chlorotoluene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Acetone	Q2, D1	<	500	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Allyl chloride	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Benzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Bromobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Bromochloromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Bromodichloromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Bromoform	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Bromomethane	Q2, D1	<	50	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Carbon tetrachloride	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Chlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Chlorodibromomethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Chloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Chloroform	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Chloromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
cis-1,2-Dichloroethene	Q2, D1	**660**	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
cis-1,3-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Dibromomethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Dichlorodifluoromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Dichlorofluoromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Ethyl ether	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Ethylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Hexachlorobutadiene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Isopropylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Methyl ethyl ketone (MEK)	Q2, D1	<	250	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-02RE1

Location ID: B36-W-(62-66)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q2, D1	<	120	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q2, D1	<	50	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Methylene chloride	Q2, D1	<	50	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Naphthalene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
n-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
n-Propylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
o-Xylene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
p&m-Xylene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
p-Isopropyltoluene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
sec-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Styrene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
tert-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Tetrachloroethene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Tetrahydrofuran (THF)	Q2, D1	<	250	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Toluene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
trans-1,2-Dichloroethene	Q2, D1	**36**	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
trans-1,3-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Trichloroethene (TCE)	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Trichlorofluoromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B
Vinyl chloride	Q2, D1	**100**	25	ug/L	1	B6C0459	03/22/16 09:31	03/22/16 09:31	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-03

Location ID: B36-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2	*100*	*70-130*	%	*1*	*B6C0410*	*03/18/16 12:33*	*03/18/16 12:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2	*103*	*70-130*	%	*1*	*B6C0410*	*03/18/16 12:33*	*03/18/16 12:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2	*98*	*70-130*	%	*1*	*B6C0410*	*03/18/16 12:33*	*03/18/16 12:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2	*101*	*70-130*	%	*1*	*B6C0410*	*03/18/16 12:33*	*03/18/16 12:33*	*EPA 8260B*
Surrogate: Toluene-d8	Q2	*99*	*70-130*	%	*1*	*B6C0410*	*03/18/16 12:33*	*03/18/16 12:33*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1,1-Trichloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1,2,2-Tetrachloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1,2-Trichloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1,2-Trichlorotrifluoroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1-Dichloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1-Dichloroethene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,1-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2,3-Trichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2,3-Trichloropropane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2,4-Trichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2,4-Trimethylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q2, D1	<	120	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2-Dibromoethane (EDB)	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2-Dichloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,2-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,3,5-Trimethylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,3-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,3-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
1,4-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-03

Location ID: B36-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
2-Chlorotoluene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
4-Chlorotoluene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Acetone	Q2, D1	<	500	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Allyl chloride	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Benzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Bromobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Bromochloromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Bromodichloromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Bromoform	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Bromomethane	M2, Q2, D1	<	50	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Carbon tetrachloride	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Chlorobenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Chlorodibromomethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Chloroethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Chloroform	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Chloromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
cis-1,2-Dichloroethene	Q2, D1	**480**	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
cis-1,3-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Dibromomethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Dichlorodifluoromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Dichlorofluoromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Ethyl ether	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Ethylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Hexachlorobutadiene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Isopropylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Methyl ethyl ketone (MEK)	Q2, D1	<	250	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-03

Location ID: B36-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q2, D1	<	120	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q2, D1	<	50	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Methylene chloride	Q2, D1	<	50	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Naphthalene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
n-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
n-Propylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
o-Xylene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
p&m-Xylene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
p-Isopropyltoluene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
sec-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Styrene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
tert-Butylbenzene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Tetrachloroethene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Tetrahydrofuran (THF)	Q2, D1	<	250	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Toluene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
trans-1,2-Dichloroethene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
trans-1,3-Dichloropropene	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Trichloroethene (TCE)	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Trichlorofluoromethane	Q2, D1	<	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B
Vinyl chloride	Q2, D1	**46**	25	ug/L	1	B6C0410	03/18/16 12:33	03/18/16 12:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-04

Location ID: B36-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 13:41*	*03/18/16 13:41*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 13:41*	*03/18/16 13:41*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 13:41*	*03/18/16 13:41*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 13:41*	*03/18/16 13:41*	*EPA 8260B*
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 13:41*	*03/18/16 13:41*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-04

Location ID: B36-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
cis-1,2-Dichloroethene	D1	**550**	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-04

Location ID: B36-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B
Vinyl chloride	D1	**56**	25	ug/L	1	B6C0410	03/18/16 13:41	03/18/16 13:41	EPA 8260B

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-05

Location ID: B36-W-(58-62 MSD)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 14:26*	*03/18/16 14:26*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 14:26*	*03/18/16 14:26*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 14:26*	*03/18/16 14:26*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 14:26*	*03/18/16 14:26*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 14:26*	*03/18/16 14:26*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-05

Location ID: B36-W-(58-62 MSD)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
cis-1,2-Dichloroethene	D1	**560**	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-05

Location ID: B36-W-(58-62 MSD)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B
Vinyl chloride	D1	**57**	25	ug/L	1	B6C0410	03/18/16 14:26	03/18/16 14:26	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-06RE1

Location ID: B36-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:54*	*03/22/16 09:54*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:54*	*03/22/16 09:54*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:54*	*03/22/16 09:54*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:54*	*03/22/16 09:54*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 09:54*	*03/22/16 09:54*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-06RE1

Location ID: B36-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Benzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Chlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	**930**	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Ethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Isopropylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-06RE1

Location ID: B36-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Naphthalene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
o-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
p&m-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Tetrachloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B
Vinyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 09:54	03/22/16 09:54	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-07

Location ID: B36-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 15:11*	*03/18/16 15:11*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 15:11*	*03/18/16 15:11*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 15:11*	*03/18/16 15:11*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 15:11*	*03/18/16 15:11*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 15:11*	*03/18/16 15:11*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-07

Location ID: B36-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
cis-1,2-Dichloroethene	D1	**280**	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-07

Location ID: B36-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Tetrachloroethene	D1	**1700**	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Trichloroethene (TCE)	D1	**230**	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 15:11	03/18/16 15:11	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-08RE1

Location ID: B36-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 10:16*	*03/22/16 10:16*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 10:16*	*03/22/16 10:16*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 10:16*	*03/22/16 10:16*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 10:16*	*03/22/16 10:16*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 10:16*	*03/22/16 10:16*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-08RE1

Location ID: B36-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
cis-1,2-Dichloroethene	D1	**62**	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-08RE1

Location ID: B36-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Tetrachloroethene	D1	**1300**	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Trichloroethene (TCE)	D1	**63**	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 10:16	03/22/16 10:16	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-09RE1

Location ID: DUP-W-2
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0459*	*03/22/16 10:39*	*03/22/16 10:39*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	%	*1*	*B6C0459*	*03/22/16 10:39*	*03/22/16 10:39*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	%	*1*	*B6C0459*	*03/22/16 10:39*	*03/22/16 10:39*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	%	*1*	*B6C0459*	*03/22/16 10:39*	*03/22/16 10:39*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	%	*1*	*B6C0459*	*03/22/16 10:39*	*03/22/16 10:39*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1,1-Trichloroethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-09RE1

Location ID: DUP-W-2
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
2-Chlorotoluene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Benzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Chlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	**270**	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Ethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Isopropylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-09RE1

Location ID: DUP-W-2
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Naphthalene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
o-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
p&m-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Tetrachloroethene	D1, Q2	**1700**	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Trichloroethene (TCE)	D1, Q2	**230**	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B
Vinyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 10:39	03/22/16 10:39	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-10RE1

Location ID: DUP-W-3
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:02*	*03/22/16 11:02*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:02*	*03/22/16 11:02*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:02*	*03/22/16 11:02*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:02*	*03/22/16 11:02*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:02*	*03/22/16 11:02*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-10RE1

Location ID: DUP-W-3
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
cis-1,2-Dichloroethene	D1	**54**	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B

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Minnesota Department of Health
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-10RE1

Location ID: DUP-W-3
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 12:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Tetrachloroethene	D1	**1200**	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Trichloroethene (TCE)	D1	**54**	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 11:02	03/22/16 11:02	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-11

Location ID: B35-W-(96-100)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 13:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 16:42*	*03/18/16 16:42*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 16:42*	*03/18/16 16:42*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 16:42*	*03/18/16 16:42*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 16:42*	*03/18/16 16:42*	*EPA 8260B*
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 16:42*	*03/18/16 16:42*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B

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Public Health Laboratory
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-11

Location ID: B35-W-(96-100)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 13:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
cis-1,2-Dichloroethene	D1	**3000**	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Public Health Laboratory, Minnesota Department of Health

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-11

Location ID: B35-W-(96-100)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 13:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Tetrachloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
trans-1,2-Dichloroethene	D1	**110**	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B
Vinyl chloride	D1	**150**	100	ug/L	1	B6C0410	03/18/16 16:42	03/18/16 16:42	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-12RE1

Location ID: B35-W-(62-66)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:24*	*03/22/16 11:24*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:24*	*03/22/16 11:24*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:24*	*03/22/16 11:24*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:24*	*03/22/16 11:24*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 11:24*	*03/22/16 11:24*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-12RE1

Location ID: B35-W-(62-66)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Benzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Chlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	**270**	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Ethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Isopropylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-12RE1

Location ID: B35-W-(62-66)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Naphthalene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
o-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
p&m-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Tetrachloroethene	D1, Q2	**360**	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B
Vinyl chloride	D1, Q2	**31**	25	ug/L	1	B6C0459	03/22/16 11:24	03/22/16 11:24	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-13RE1

Location ID: B35-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0433*	*03/21/16 13:12*	*03/21/16 13:12*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	%	*1*	*B6C0433*	*03/21/16 13:12*	*03/21/16 13:12*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	%	*1*	*B6C0433*	*03/21/16 13:12*	*03/21/16 13:12*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	%	*1*	*B6C0433*	*03/21/16 13:12*	*03/21/16 13:12*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	%	*1*	*B6C0433*	*03/21/16 13:12*	*03/21/16 13:12*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Public Health Laboratory, Minnesota Department of Health

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-13RE1

Location ID: B35-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
cis-1,2-Dichloroethene	D1	**210**	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-13RE1

Location ID: B35-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Tetrachloroethene	D1	**3700**	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:12	03/21/16 13:12	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-14

Location ID: B35-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 13:34*	*03/21/16 13:34*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 13:34*	*03/21/16 13:34*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 13:34*	*03/21/16 13:34*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 13:34*	*03/21/16 13:34*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 13:34*	*03/21/16 13:34*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-14

Location ID: B35-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Acetone	D1, W8	<	2000	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
cis-1,2-Dichloroethene	D1	**220**	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-14

Location ID: B35-W-(58-62 MS)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Tetrachloroethene	D1	**3100**	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 13:34	03/21/16 13:34	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-15

Location ID: B35-W-(58-62) MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 14:19*	*03/21/16 14:19*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 14:19*	*03/21/16 14:19*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 14:19*	*03/21/16 14:19*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 14:19*	*03/21/16 14:19*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 14:19*	*03/21/16 14:19*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-15

Location ID: B35-W-(58-62) MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
cis-1,2-Dichloroethene	D1	**220**	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-15

Location ID: B35-W-(58-62) MSD
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Tetrachloroethene	D1	**3300**	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0433	03/21/16 14:19	03/21/16 14:19	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-16

Location ID: B35-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:27*	*03/18/16 17:27*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:27*	*03/18/16 17:27*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:27*	*03/18/16 17:27*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:27*	*03/18/16 17:27*	*EPA 8260B*
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:27*	*03/18/16 17:27*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-16

Location ID: B35-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
cis-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-16

Location ID: B35-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Tetrachloroethene	D1	**5700**	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:27	03/18/16 17:27	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-17

Location ID: B35-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:49*	*03/18/16 17:49*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:49*	*03/18/16 17:49*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:49*	*03/18/16 17:49*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:49*	*03/18/16 17:49*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 17:49*	*03/18/16 17:49*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-17

Location ID: B35-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
cis-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-17

Location ID: B35-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Tetrachloroethene	D1	**5900**	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 17:49	03/18/16 17:49	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-18

Location ID: B35-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 15:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	%	*1*	*B6C0410*	*03/18/16 18:12*	*03/18/16 18:12*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	%	*1*	*B6C0410*	*03/18/16 18:12*	*03/18/16 18:12*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	%	*1*	*B6C0410*	*03/18/16 18:12*	*03/18/16 18:12*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	%	*1*	*B6C0410*	*03/18/16 18:12*	*03/18/16 18:12*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	%	*1*	*B6C0410*	*03/18/16 18:12*	*03/18/16 18:12*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-18

Location ID: B35-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 15:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
cis-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B

Authorized by:

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-18

Location ID: B35-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/09/16
Collect Time: 15:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Tetrachloroethene	D1	**2100**	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:12	03/18/16 18:12	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-19

Location ID: DUP-W-4
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 14:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:34*	*03/18/16 18:34*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:34*	*03/18/16 18:34*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:34*	*03/18/16 18:34*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:34*	*03/18/16 18:34*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:34*	*03/18/16 18:34*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-19

Location ID: DUP-W-4
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 14:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
cis-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B

Authorized by:

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-19

Location ID: DUP-W-4
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 14:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Tetrachloroethene	D1	**5800**	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:34	03/18/16 18:34	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-20

Location ID: DUP-W-5
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 15:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:57*	*03/18/16 18:57*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:57*	*03/18/16 18:57*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*99*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:57*	*03/18/16 18:57*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:57*	*03/18/16 18:57*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0410*	*03/18/16 18:57*	*03/18/16 18:57*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-20

Location ID: DUP-W-5
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 15:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
cis-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-20

Location ID: DUP-W-5
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/09/16
Collect Time: 15:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Temp > 6.0 deg C. -CTS

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Tetrachloroethene	D1	**2100**	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0410	03/18/16 18:57	03/18/16 18:57	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-21RE1

Location ID: B28-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 9:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0459*	*03/22/16 11:47*	*03/22/16 11:47*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*104*	*70-130*	%	*1*	*B6C0459*	*03/22/16 11:47*	*03/22/16 11:47*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*97*	*70-130*	%	*1*	*B6C0459*	*03/22/16 11:47*	*03/22/16 11:47*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*100*	*70-130*	%	*1*	*B6C0459*	*03/22/16 11:47*	*03/22/16 11:47*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*98*	*70-130*	%	*1*	*B6C0459*	*03/22/16 11:47*	*03/22/16 11:47*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1,1-Trichloroethane	Q4, D1	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-21RE1

Location ID: B28-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 9:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Acetone	Q4, D1	<	500	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Benzene	D1, Q4	**140**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Dibromomethane	Q4, D1	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Ethylbenzene	D1, Q4	**68**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-21RE1

Location ID: B28-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 9:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Naphthalene	D1, Q4	**240**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
o-Xylene	D1, Q4	**44**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
p&m-Xylene	D1, Q4	**32**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Tetrachloroethene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**300**	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B
Vinyl chloride	D1, Q4	<	25	ug/L	1	B6C0459	03/22/16 11:47	03/22/16 11:47	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-22RE1

Location ID: B28-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:09*	*03/22/16 12:09*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:09*	*03/22/16 12:09*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:09*	*03/22/16 12:09*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:09*	*03/22/16 12:09*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:09*	*03/22/16 12:09*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-22RE1

Location ID: B28-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Benzene	D1	**130**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Ethylbenzene	D1	**74**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-22RE1

Location ID: B28-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Naphthalene	D1	**500**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
o-Xylene	D1	**45**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
p&m-Xylene	D1	**37**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
trans-1,2-Dichloroethene	D1	**76**	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 12:09	03/22/16 12:09	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-23RE1

Location ID: B28-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:32*	*03/22/16 12:32*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:32*	*03/22/16 12:32*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:32*	*03/22/16 12:32*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:32*	*03/22/16 12:32*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:32*	*03/22/16 12:32*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-23RE1

Location ID: B28-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Benzene	D1, Q2	**140**	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Chlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Ethylbenzene	D1, Q2	**60**	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Isopropylbenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-23RE1

Location ID: B28-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Naphthalene	D1, Q2	**170**	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
o-Xylene	D1, Q2	**36**	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
p&m-Xylene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Tetrachloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	**44**	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Trichlorofluoromethane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B
Vinyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 12:32	03/22/16 12:32	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-24RE1

Location ID: B28-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:54*	*03/22/16 12:54*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:54*	*03/22/16 12:54*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:54*	*03/22/16 12:54*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:54*	*03/22/16 12:54*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 12:54*	*03/22/16 12:54*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2,4-Trimethylbenzene	D1	**9.4**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Public Health Laboratory, Minnesota Department of Health

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-24RE1

Location ID: B28-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Benzene	D1	**82**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Ethylbenzene	D1	**23**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-24RE1

Location ID: B28-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Naphthalene	D1	**150**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
o-Xylene	D1	**32**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
p&m-Xylene	D1	**18**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
trans-1,2-Dichloroethene	D1	**11**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B
Vinyl chloride	D1	**14**	5.0	ug/L	1	B6C0459	03/22/16 12:54	03/22/16 12:54	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-25RE1

Location ID: B28-W-(39-43)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:17*	*03/22/16 13:17*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:17*	*03/22/16 13:17*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:17*	*03/22/16 13:17*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:17*	*03/22/16 13:17*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:17*	*03/22/16 13:17*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2,4-Trimethylbenzene	D1	**35**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-25RE1

Location ID: B28-W-(39-43)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Benzene	D1	**67**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Ethylbenzene	D1	**58**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B

Authorized by:

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-25RE1

Location ID: B28-W-(39-43)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 10:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Naphthalene	D1	**910**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
o-Xylene	D1	**47**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
p&m-Xylene	D1	**30**	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:17	03/22/16 13:17	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-26RE1

Location ID: B26-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:39*	*03/22/16 13:39*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:39*	*03/22/16 13:39*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:39*	*03/22/16 13:39*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:39*	*03/22/16 13:39*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 13:39*	*03/22/16 13:39*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-26RE1

Location ID: B26-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Benzene	D1	**150**	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Ethylbenzene	D1	**58**	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-26RE1

Location ID: B26-W-(77-81)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Naphthalene	D1	**230**	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
o-Xylene	D1	**31**	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
trans-1,2-Dichloroethene	D1	**410**	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 13:39	03/22/16 13:39	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-27RE1

Location ID: B26-W-(70-74)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:02*	*03/22/16 14:02*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:02*	*03/22/16 14:02*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:02*	*03/22/16 14:02*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:02*	*03/22/16 14:02*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:02*	*03/22/16 14:02*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,3-Dichlorobenzene	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-27RE1

Location ID: B26-W-(70-74)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Benzene	D1, Q2	**150**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Chlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Ethylbenzene	D1, Q2	**62**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Isopropylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B

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Generated: 03/31/16 16:03

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Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Naphthalene	D1, Q2	**140**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
o-Xylene	D1, Q2	**49**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
p&m-Xylene	Q2, D1	**33**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Tetrachloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	**790**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B
Vinyl chloride	D1, Q2	**34**	25	ug/L	1	B6C0459	03/22/16 14:02	03/22/16 14:02	EPA 8260B

Authorized by:

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-28RE1

Location ID: B26-W-(60-64)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:25*	*03/22/16 14:25*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:25*	*03/22/16 14:25*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:25*	*03/22/16 14:25*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:25*	*03/22/16 14:25*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:25*	*03/22/16 14:25*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-28RE1

Location ID: B26-W-(60-64)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Benzene	D1	**93**	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Ethylbenzene	D1	**34**	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-28RE1

Location ID: B26-W-(60-64)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Naphthalene	D1	**270**	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
o-Xylene	D1	**37**	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
trans-1,2-Dichloroethene	D1	**110**	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:25	03/22/16 14:25	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-29RE1

Location ID: B26-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:48*	*03/22/16 14:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:48*	*03/22/16 14:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:48*	*03/22/16 14:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:48*	*03/22/16 14:48*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 14:48*	*03/22/16 14:48*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-29RE1

Location ID: B26-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Benzene	D1	**90**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Ethylbenzene	D1	**46**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-29RE1

Location ID: B26-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Naphthalene	D1	**450**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
o-Xylene	D1	**43**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
p&m-Xylene	D1	**28**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
trans-1,2-Dichloroethene	D1	**74**	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 14:48	03/22/16 14:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-30RE1

Location ID: B26-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:10*	*03/22/16 15:10*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:10*	*03/22/16 15:10*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:10*	*03/22/16 15:10*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:10*	*03/22/16 15:10*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:10*	*03/22/16 15:10*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-30RE1

Location ID: B26-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Benzene	D1	**65**	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B

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Collected By: Melissa Meeuwsen
Collector ID: None

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Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-30RE1

Location ID: B26-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Naphthalene	D1	**310**	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
o-Xylene	D1	**25**	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
trans-1,2-Dichloroethene	D1	**85**	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B
Vinyl chloride	D1	**34**	25	ug/L	1	B6C0459	03/22/16 15:10	03/22/16 15:10	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-31RE1

Location ID: B26-W-(48-44)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:33*	*03/22/16 15:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:33*	*03/22/16 15:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:33*	*03/22/16 15:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:33*	*03/22/16 15:33*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:33*	*03/22/16 15:33*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	**36**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B

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Analytical Results

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Collected By: Melissa Meeuwsen
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Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-31RE1

Location ID: B26-W-(48-44)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q2, D1	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Benzene	D1, Q2	**71**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Chlorobenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Ethylbenzene	D1, Q2	**63**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Isopropylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-31RE1

Location ID: B26-W-(48-44)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Naphthalene	D1, Q2	**920**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
o-Xylene	D1, Q2	**47**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
p&m-Xylene	D1, Q2	**29**	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Tetrachloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B
Vinyl chloride	D1, Q2	<	25	ug/L	1	B6C0459	03/22/16 15:33	03/22/16 15:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-32RE1

Location ID: DUP-W-6
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/10/16
Collect Time: 13:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:55*	*03/22/16 15:55*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:55*	*03/22/16 15:55*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:55*	*03/22/16 15:55*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:55*	*03/22/16 15:55*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 15:55*	*03/22/16 15:55*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2,4-Trimethylbenzene	D1	**35**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B

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Generated: 03/31/16 16:03

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Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/10/16
Collect Time: 13:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Benzene	D1	**69**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Ethylbenzene	D1	**60**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-32RE1

Location ID: DUP-W-6
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/10/16
Collect Time: 13:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Naphthalene	D1	**910**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
o-Xylene	D1	**46**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
p&m-Xylene	D1	**28**	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0459	03/22/16 15:55	03/22/16 15:55	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-33RE1

Location ID: B26-W-(31-35)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 16:18*	*03/22/16 16:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 16:18*	*03/22/16 16:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 16:18*	*03/22/16 16:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 16:18*	*03/22/16 16:18*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0459*	*03/22/16 16:18*	*03/22/16 16:18*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-33RE1

Location ID: B26-W-(31-35)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-33RE1

Location ID: B26-W-(31-35)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/10/16
Collect Time: 13:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Naphthalene	D1	**9.2**	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
trans-1,2-Dichloroethene	D1	**9.2**	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Trichloroethene (TCE)	D1	**39**	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0459	03/22/16 16:18	03/22/16 16:18	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-34

Location ID: TRIP BLANK-3
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/09/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 12:49*	*03/21/16 12:49*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 12:49*	*03/21/16 12:49*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 12:49*	*03/21/16 12:49*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 12:49*	*03/21/16 12:49*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0433*	*03/21/16 12:49*	*03/21/16 12:49*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-34

Location ID: TRIP BLANK-3
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/09/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Acetone		<	20	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B

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Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: None
City: None
Generated: 03/31/16 16:03

MDH Sample Number: 16C0573-34

Location ID: TRIP BLANK-3
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/09/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0433	03/21/16 12:49	03/21/16 12:49	EPA 8260B

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: [none]
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Batch Summary

Samples in Batch: B6C0410 - EPA 5030B Preparation

16C0573-01	16C0573-03	16C0573-04	16C0573-05	16C0573-07	16C0573-11	16C0573-16
16C0573-17	16C0573-18	16C0573-19	16C0573-20			

Samples in Batch: B6C0433 - EPA 5030B Preparation

16C0573-13RE1	16C0573-14	16C0573-15	16C0573-34

Samples in Batch: B6C0459 - EPA 5030B Preparation

16C0573-02RE1	16C0573-06RE1	16C0573-08RE1	16C0573-09RE1	16C0573-10RE1	16C0573-12RE1	16C0573-21RE1
16C0573-22RE1	16C0573-23RE1	16C0573-24RE1	16C0573-25RE1	16C0573-26RE1	16C0573-27RE1	16C0573-28RE1
16C0573-29RE1	16C0573-30RE1	16C0573-31RE1	16C0573-32RE1	16C0573-33RE1		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

Blank (B6C0410-BLK1) **Prepared: 03/18/16 12:11 Analyzed: 03/18/16 12:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

Blank (B6C0410-BLK1) **Prepared: 03/18/16 12:11 Analyzed: 03/18/16 12:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

Blank (B6C0410-BLK1) **Prepared: 03/18/16 12:11 Analyzed: 03/18/16 12:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0410-BS1) **Prepared: 03/18/16 10:18 Analyzed: 03/18/16 10:18**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*98*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.6	1.0	ug/L	10		96	70-130		
1,1,1-Trichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,2,2-Tetrachloroethane		9.0	1.0	ug/L	10		90	70-130		
1,1,2-Trichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		102	70-130		
1,1-Dichloroethane		9.3	1.0	ug/L	10		93	70-130		
1,1-Dichloroethene		9.9	1.0	ug/L	10		99	70-130		
1,1-Dichloropropene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,3-Trichloropropane		9.3	1.0	ug/L	10		93	70-130		
1,2,4-Trichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2,4-Trimethylbenzene		9.5	1.0	ug/L	10		95	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		8.9	5.0	ug/L	10		89	70-130		
1,2-Dibromoethane (EDB)		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichloroethane		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloropropane		9.3	1.0	ug/L	10		93	70-130		
1,3,5-Trimethylbenzene		9.4	1.0	ug/L	10		94	70-130		
1,3-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,3-Dichloropropane		9.5	1.0	ug/L	10		95	70-130		
1,4-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
2,2-Dichloropropane		9.8	1.0	ug/L	10		98	70-130		
2-Chlorotoluene		9.4	1.0	ug/L	10		94	70-130		

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

LCS (B6C0410-BS1) **Prepared: 03/18/16 10:18 Analyzed: 03/18/16 10:18**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		9.4	1.0	ug/L	10		94	70-130		
Acetone		97	20	ug/L	100		97	70-130		
Allyl chloride		9.4	1.0	ug/L	10		94	70-130		
Benzene		9.5	1.0	ug/L	10		95	70-130		
Bromobenzene		9.6	1.0	ug/L	10		96	70-130		
Bromochloromethane		10	1.0	ug/L	10		101	70-130		
Bromodichloromethane		9.3	1.0	ug/L	10		93	70-130		
Bromoform		9.2	1.0	ug/L	10		92	70-130		
Bromomethane		8.8	2.0	ug/L	10		88	70-130		
Carbon tetrachloride		9.4	1.0	ug/L	10		94	70-130		
Chlorobenzene		9.7	1.0	ug/L	10		97	70-130		
Chlorodibromomethane		9.3	1.0	ug/L	10		93	70-130		
Chloroethane		9.4	1.0	ug/L	10		94	70-130		
Chloroform		9.6	1.0	ug/L	10		96	70-130		
Chloromethane		11	1.0	ug/L	10		109	70-130		
cis-1,2-Dichloroethene		9.6	1.0	ug/L	10		96	70-130		
cis-1,3-Dichloropropene		9.2	1.0	ug/L	10		92	70-130		
Dibromomethane		9.5	1.0	ug/L	10		95	70-130		
Dichlorodifluoromethane		11	1.0	ug/L	10		106	70-130		
Dichlorofluoromethane		9.4	1.0	ug/L	10		94	70-130		
Ethyl ether		9.2	1.0	ug/L	10		92	70-130		
Ethylbenzene		9.7	1.0	ug/L	10		97	70-130		
Hexachlorobutadiene		10	1.0	ug/L	10		100	70-130		
Isopropylbenzene		9.6	1.0	ug/L	10		96	70-130		
Methyl ethyl ketone (MEK)		46	10	ug/L	50		92	70-130		
Methyl isobutyl ketone (MIBK)		45	5.0	ug/L	50		89	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		9.3	2.0	ug/L	10		93	70-130		
Naphthalene		9.5	1.0	ug/L	10		95	70-130		
n-Butylbenzene		9.4	1.0	ug/L	10		94	70-130		
n-Propylbenzene		9.6	1.0	ug/L	10		96	70-130		
o-Xylene		9.6	1.0	ug/L	10		96	70-130		
p&m-Xylene		9.7	1.0	ug/L	10		97	70-130		
p-Isopropyltoluene		9.8	1.0	ug/L	10		98	70-130		
sec-Butylbenzene		9.7	1.0	ug/L	10		97	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

LCS (B6C0410-BS1) **Prepared: 03/18/16 10:18 Analyzed: 03/18/16 10:18**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.5	1.0	ug/L	10		95	70-130		
tert-Butylbenzene		9.6	1.0	ug/L	10		96	70-130		
Tetrachloroethene		9.9	1.0	ug/L	10		99	70-130		
Tetrahydrofuran (THF)		90	10	ug/L	100		90	70-130		
Toluene		9.6	1.0	ug/L	10		96	70-130		
trans-1,2-Dichloroethene		9.5	1.0	ug/L	10		95	70-130		
trans-1,3-Dichloropropene		9.5	1.0	ug/L	10		95	70-130		
Trichloroethene (TCE)		9.8	1.0	ug/L	10		98	70-130		
Trichlorofluoromethane		10	1.0	ug/L	10		100	70-130		
Vinyl chloride		9.5	1.0	ug/L	10		95	70-130		

Duplicate (B6C0410-DUP1) Source: 16C0573-04 **Prepared: 03/18/16 14:04 Analyzed: 03/18/16 14:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*99*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L		<				30
1,1,1-Trichloroethane	D1	<	25	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L		<				30
1,1,2-Trichloroethane	D1	<	25	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L		<				30
1,1-Dichloroethane	D1	<	25	ug/L		<				30
1,1-Dichloroethene	D1	<	25	ug/L		<				30
1,1-Dichloropropene	D1	<	25	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	25	ug/L		<				30
1,2,3-Trichloropropane	D1	<	25	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	25	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	25	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	25	ug/L		<				30
1,2-Dichlorobenzene	D1	<	25	ug/L		<				30
1,2-Dichloroethane	D1	<	25	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

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Batch B6C0410 - EPA 5030B Preparation

Duplicate (B6C0410-DUP1) Source: 16C0573-04 **Prepared: 03/18/16 14:04 Analyzed: 03/18/16 14:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1	<	25	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	25	ug/L		<				30
1,3-Dichlorobenzene	D1	<	25	ug/L		<				30
1,3-Dichloropropane	D1	<	25	ug/L		<				30
1,4-Dichlorobenzene	D1	<	25	ug/L		<				30
2,2-Dichloropropane	D1	<	25	ug/L		<				30
2-Chlorotoluene	D1	<	25	ug/L		<				30
4-Chlorotoluene	D1	<	25	ug/L		<				30
Acetone	D1	<	500	ug/L		<				30
Allyl chloride	D1	<	25	ug/L		<				30
Benzene	D1	<	25	ug/L		<				30
Bromobenzene	D1	<	25	ug/L		<				30
Bromochloromethane	D1	<	25	ug/L		<				30
Bromodichloromethane	D1	<	25	ug/L		<				30
Bromoform	D1	<	25	ug/L		<				30
Bromomethane	D1	<	50	ug/L		<				30
Carbon tetrachloride	D1	<	25	ug/L		<				30
Chlorobenzene	D1	<	25	ug/L		<				30
Chlorodibromomethane	D1	<	25	ug/L		<				30
Chloroethane	D1	<	25	ug/L		<				30
Chloroform	D1	<	25	ug/L		<				30
Chloromethane	D1	<	25	ug/L		<				30
cis-1,2-Dichloroethene	D1	530	25	ug/L		550			4	30
cis-1,3-Dichloropropene	D1	<	25	ug/L		<				30
Dibromomethane	D1	<	25	ug/L		<				30
Dichlorodifluoromethane	D1	<	25	ug/L		<				30
Dichlorofluoromethane	D1	<	25	ug/L		<				30
Ethyl ether	D1	<	25	ug/L		<				30
Ethylbenzene	D1	<	25	ug/L		<				30
Hexachlorobutadiene	D1	<	25	ug/L		<				30
Isopropylbenzene	D1	<	25	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	<	250	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L		<				30
Methylene chloride	D1	<	50	ug/L		<				30

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Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

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Batch B6C0410 - EPA 5030B Preparation

Duplicate (B6C0410-DUP1) Source: 16C0573-04 **Prepared: 03/18/16 14:04 Analyzed: 03/18/16 14:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1	<	25	ug/L		<				30
n-Butylbenzene	D1	<	25	ug/L		<				30
n-Propylbenzene	D1	<	25	ug/L		<				30
o-Xylene	D1	<	25	ug/L		<				30
p&m-Xylene	D1	<	25	ug/L		<				30
p-Isopropyltoluene	D1	<	25	ug/L		<				30
sec-Butylbenzene	D1	<	25	ug/L		<				30
Styrene	D1	<	25	ug/L		<				30
tert-Butylbenzene	D1	<	25	ug/L		<				30
Tetrachloroethene	D1	<	25	ug/L		<				30
Tetrahydrofuran (THF)	D1	12	250	ug/L		<			6	30
Toluene	D1	<	25	ug/L		<				30
trans-1,2-Dichloroethene	D1	23	25	ug/L		<			1	30
trans-1,3-Dichloropropene	D1	<	25	ug/L		<				30
Trichloroethene (TCE)	D1	<	25	ug/L		<				30
Trichlorofluoromethane	D1	<	25	ug/L		<				30
Vinyl chloride	D1	54	25	ug/L		56			4	30

Matrix Spike (B6C0410-MS1) Source: 16C0573-03 **Prepared: 03/18/16 11:48 Analyzed: 03/18/16 11:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	260	25	ug/L	250	<	105	70-130		
1,1,1-Trichloroethane	D1	290	25	ug/L	250	<	114	70-130		
1,1,2,2-Tetrachloroethane	D1	250	25	ug/L	250	<	98	70-130		
1,1,2-Trichloroethane	D1	240	25	ug/L	250	<	98	70-130		
1,1,2-Trichlorotrifluoroethane	D1	310	25	ug/L	250	<	124	70-130		
1,1-Dichloroethane	D1	260	25	ug/L	250	<	106	70-130		
1,1-Dichloroethene	D1	300	25	ug/L	250	<	120	70-130		
1,1-Dichloropropene	D1	280	25	ug/L	250	<	114	70-130		
1,2,3-Trichlorobenzene	D1	270	25	ug/L	250	<	108	70-130		
1,2,3-Trichloropropane	D1	250	25	ug/L	250	<	100	70-130		

FINAL REPORT

Report ID: 03312016160359

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

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Batch B6C0410 - EPA 5030B Preparation

Matrix Spike (B6C0410-MS1) Source: 16C0573-03 **Prepared: 03/18/16 11:48 Analyzed: 03/18/16 11:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	D1	270	25	ug/L	250	<	108	70-130		
1,2,4-Trimethylbenzene	D1	260	25	ug/L	250	<	106	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	240	120	ug/L	250	<	95	70-130		
1,2-Dibromoethane (EDB)	D1	270	25	ug/L	250	<	107	70-130		
1,2-Dichlorobenzene	D1	260	25	ug/L	250	<	106	70-130		
1,2-Dichloroethane	D1	260	25	ug/L	250	<	106	70-130		
1,2-Dichloropropane	D1	260	25	ug/L	250	<	104	70-130		
1,3,5-Trimethylbenzene	D1	270	25	ug/L	250	<	106	70-130		
1,3-Dichlorobenzene	D1	270	25	ug/L	250	<	106	70-130		
1,3-Dichloropropane	D1	260	25	ug/L	250	<	105	70-130		
1,4-Dichlorobenzene	D1	270	25	ug/L	250	<	108	70-130		
2,2-Dichloropropane	D1	280	25	ug/L	250	<	114	70-130		
2-Chlorotoluene	D1	260	25	ug/L	250	<	104	70-130		
4-Chlorotoluene	D1	260	25	ug/L	250	<	104	70-130		
Acetone	D1	2600	500	ug/L	2,500	<	105	70-130		
Allyl chloride	D1	270	25	ug/L	250	<	107	70-130		
Benzene	D1	280	25	ug/L	250	<	110	70-130		
Bromobenzene	D1	260	25	ug/L	250	<	106	70-130		
Bromochloromethane	D1	280	25	ug/L	250	<	112	70-130		
Bromodichloromethane	D1	260	25	ug/L	250	<	105	70-130		
Bromoform	D1	250	25	ug/L	250	<	99	70-130		
Bromomethane	M2, D1	110	50	ug/L	250	<	44	70-130		
Carbon tetrachloride	D1	280	25	ug/L	250	<	110	70-130		
Chlorobenzene	D1	280	25	ug/L	250	<	110	70-130		
Chlorodibromomethane	D1	250	25	ug/L	250	<	102	70-130		
Chloroethane	D1	190	25	ug/L	250	<	75	70-130		
Chloroform	D1	270	25	ug/L	250	<	108	70-130		
Chloromethane	D1	320	25	ug/L	250	<	129	70-130		
cis-1,2-Dichloroethene	D1	750	25	ug/L	250	480	107	70-130		
cis-1,3-Dichloropropene	D1	250	25	ug/L	250	<	102	70-130		
Dibromomethane	D1	270	25	ug/L	250	<	106	70-130		
Dichlorodifluoromethane	D1	320	25	ug/L	250	<	130	70-130		
Dichlorofluoromethane	D1	260	25	ug/L	250	<	105	70-130		
Ethyl ether	D1	260	25	ug/L	250	<	105	70-130		
Ethylbenzene	D1	280	25	ug/L	250	<	111	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0410 - EPA 5030B Preparation

Matrix Spike (B6C0410-MS1) Source: 16C0573-03 **Prepared: 03/18/16 11:48 Analyzed: 03/18/16 11:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobutadiene	D1	280	25	ug/L	250	<	112	70-130		
Isopropylbenzene	D1	270	25	ug/L	250	<	108	70-130		
Methyl ethyl ketone (MEK)	D1	1300	250	ug/L	1,250	<	100	70-130		
Methyl isobutyl ketone (MIBK)	D1	1200	120	ug/L	1,250	<	98	70-130		
Methyl tertiary butyl ether (MTBE)	D1	260	50	ug/L	250	<	104	70-130		
Methylene chloride	D1	260	50	ug/L	250	<	106	70-130		
Naphthalene	D1	260	25	ug/L	250	<	106	70-130		
n-Butylbenzene	D1	270	25	ug/L	250	<	107	70-130		
n-Propylbenzene	D1	270	25	ug/L	250	<	109	70-130		
o-Xylene	D1	270	25	ug/L	250	<	109	70-130		
p&m-Xylene	D1	270	25	ug/L	250	<	108	70-130		
p-Isopropyltoluene	D1	280	25	ug/L	250	<	110	70-130		
sec-Butylbenzene	D1	280	25	ug/L	250	<	112	70-130		
Styrene	D1	270	25	ug/L	250	<	107	70-130		
tert-Butylbenzene	D1	270	25	ug/L	250	<	109	70-130		
Tetrachloroethene	D1	290	25	ug/L	250	<	116	70-130		
Tetrahydrofuran (THF)	D1	2500	250	ug/L	2,500	<	99	70-130		
Toluene	D1	270	25	ug/L	250	<	108	70-130		
trans-1,2-Dichloroethene	D1	300	25	ug/L	250	<	113	70-130		
trans-1,3-Dichloropropene	D1	260	25	ug/L	250	<	104	70-130		
Trichloroethene (TCE)	D1	280	25	ug/L	250	<	114	70-130		
Trichlorofluoromethane	D1	290	25	ug/L	250	<	116	70-130		
Vinyl chloride	D1	330	25	ug/L	250	46	113	70-130		

Batch B6C0433 - EPA 5030B Preparation

Blank (B6C0433-BLK1) **Prepared: 03/21/16 12:27 Analyzed: 03/21/16 12:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

Blank (B6C0433-BLK1) **Prepared: 03/21/16 12:27 Analyzed: 03/21/16 12:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

Blank (B6C0433-BLK1) **Prepared: 03/21/16 12:27 Analyzed: 03/21/16 12:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

LCS (B6C0433-BS1) **Prepared: 03/21/16 10:37 Analyzed: 03/21/16 10:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.5	1.0	ug/L	10		95	70-130		
1,1,1-Trichloroethane		9.8	1.0	ug/L	10		98	70-130		
1,1,2,2-Tetrachloroethane		8.6	1.0	ug/L	10		86	70-130		
1,1,2-Trichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		105	70-130		
1,1-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		102	70-130		
1,1-Dichloropropene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,3-Trichloropropane		9.1	1.0	ug/L	10		91	70-130		
1,2,4-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,4-Trimethylbenzene		9.2	1.0	ug/L	10		92	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		8.6	5.0	ug/L	10		86	70-130		
1,2-Dibromoethane (EDB)		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichloroethane		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
1,3,5-Trimethylbenzene		9.1	1.0	ug/L	10		91	70-130		
1,3-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,3-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
1,4-Dichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
2,2-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
2-Chlorotoluene		9.2	1.0	ug/L	10		92	70-130		
4-Chlorotoluene		9.2	1.0	ug/L	10		92	70-130		
Acetone		96	20	ug/L	100		96	70-130		
Allyl chloride		9.6	1.0	ug/L	10		96	70-130		
Benzene		9.5	1.0	ug/L	10		95	70-130		
Bromobenzene		9.5	1.0	ug/L	10		95	70-130		
Bromochloromethane		10	1.0	ug/L	10		102	70-130		
Bromodichloromethane		9.4	1.0	ug/L	10		94	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

LCS (B6C0433-BS1) **Prepared: 03/21/16 10:37 Analyzed: 03/21/16 10:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		9.0	1.0	ug/L	10		90	70-130		
Bromomethane		8.9	2.0	ug/L	10		89	70-130		
Carbon tetrachloride		9.6	1.0	ug/L	10		96	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		9.2	1.0	ug/L	10		92	70-130		
Chloroethane		9.1	1.0	ug/L	10		91	70-130		
Chloroform		9.5	1.0	ug/L	10		95	70-130		
Chloromethane		10	1.0	ug/L	10		101	70-130		
cis-1,2-Dichloroethene		9.7	1.0	ug/L	10		97	70-130		
cis-1,3-Dichloropropene		9.0	1.0	ug/L	10		90	70-130		
Dibromomethane		9.6	1.0	ug/L	10		96	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		103	70-130		
Dichlorofluoromethane		9.4	1.0	ug/L	10		94	70-130		
Ethyl ether		9.4	1.0	ug/L	10		94	70-130		
Ethylbenzene		9.5	1.0	ug/L	10		95	70-130		
Hexachlorobutadiene		9.8	1.0	ug/L	10		98	70-130		
Isopropylbenzene		9.4	1.0	ug/L	10		94	70-130		
Methyl ethyl ketone (MEK)		46	10	ug/L	50		92	70-130		
Methyl isobutyl ketone (MIBK)		43	5.0	ug/L	50		87	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		9.6	2.0	ug/L	10		96	70-130		
Naphthalene		9.4	1.0	ug/L	10		94	70-130		
n-Butylbenzene		9.0	1.0	ug/L	10		90	70-130		
n-Propylbenzene		9.4	1.0	ug/L	10		94	70-130		
o-Xylene		9.5	1.0	ug/L	10		95	70-130		
p&m-Xylene		9.5	1.0	ug/L	10		95	70-130		
p-Isopropyltoluene		9.5	1.0	ug/L	10		95	70-130		
sec-Butylbenzene		9.5	1.0	ug/L	10		95	70-130		
Styrene		9.3	1.0	ug/L	10		93	70-130		
tert-Butylbenzene		9.5	1.0	ug/L	10		95	70-130		
Tetrachloroethene		9.8	1.0	ug/L	10		98	70-130		
Tetrahydrofuran (THF)		89	10	ug/L	100		89	70-130		
Toluene		9.4	1.0	ug/L	10		94	70-130		
trans-1,2-Dichloroethene		9.6	1.0	ug/L	10		96	70-130		
trans-1,3-Dichloropropene		9.0	1.0	ug/L	10		90	70-130		

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Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

LCS (B6C0433-BS1) **Prepared: 03/21/16 10:37 Analyzed: 03/21/16 10:37**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		9.8	1.0	ug/L	10		98	70-130		
Trichlorofluoromethane		9.8	1.0	ug/L	10		98	70-130		
Vinyl chloride		9.3	1.0	ug/L	10		93	70-130		

Duplicate (B6C0433-DUP1) Source: 16C0573-14 **Prepared: 03/21/16 13:57 Analyzed: 03/21/16 13:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L		<				30
1,1,1-Trichloroethane	D1	<	100	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L		<				30
1,1,2-Trichloroethane	D1	<	100	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L		<				30
1,1-Dichloroethane	D1	<	100	ug/L		<				30
1,1-Dichloroethene	D1	<	100	ug/L		<				30
1,1-Dichloropropene	D1	<	100	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	100	ug/L		<				30
1,2,3-Trichloropropane	D1	<	100	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	100	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	100	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	100	ug/L		<				30
1,2-Dichlorobenzene	D1	<	100	ug/L		<				30
1,2-Dichloroethane	D1	<	100	ug/L		<				30
1,2-Dichloropropane	D1	<	100	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	100	ug/L		<				30
1,3-Dichlorobenzene	D1	<	100	ug/L		<				30
1,3-Dichloropropane	D1	<	100	ug/L		<				30
1,4-Dichlorobenzene	D1	<	100	ug/L		<				30
2,2-Dichloropropane	D1	<	100	ug/L		<				30
2-Chlorotoluene	D1	<	100	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

Duplicate (B6C0433-DUP1) Source: 16C0573-14 **Prepared: 03/21/16 13:57 Analyzed: 03/21/16 13:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene	D1	<	100	ug/L		<				30
Acetone	D1, W8	540	2000	ug/L		<			65	30
Allyl chloride	D1	<	100	ug/L		<				30
Benzene	D1	<	100	ug/L		<				30
Bromobenzene	D1	<	100	ug/L		<				30
Bromochloromethane	D1	<	100	ug/L		<				30
Bromodichloromethane	D1	<	100	ug/L		<				30
Bromoform	D1	<	100	ug/L		<				30
Bromomethane	D1	<	200	ug/L		<				30
Carbon tetrachloride	D1	<	100	ug/L		<				30
Chlorobenzene	D1	<	100	ug/L		<				30
Chlorodibromomethane	D1	<	100	ug/L		<				30
Chloroethane	D1	<	100	ug/L		<				30
Chloroform	D1	<	100	ug/L		<				30
Chloromethane	D1	<	100	ug/L		<				30
cis-1,2-Dichloroethene	D1	220	100	ug/L		220			4	30
cis-1,3-Dichloropropene	D1	<	100	ug/L		<				30
Dibromomethane	D1	<	100	ug/L		<				30
Dichlorodifluoromethane	D1	<	100	ug/L		<				30
Dichlorofluoromethane	D1	<	100	ug/L		<				30
Ethyl ether	D1	<	100	ug/L		<				30
Ethylbenzene	D1	<	100	ug/L		<				30
Hexachlorobutadiene	D1	<	100	ug/L		<				30
Isopropylbenzene	D1	<	100	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L		<				30
Methylene chloride	D1	<	200	ug/L		<				30
Naphthalene	D1	<	100	ug/L		<				30
n-Butylbenzene	D1	<	100	ug/L		<				30
n-Propylbenzene	D1	<	100	ug/L		<				30
o-Xylene	D1	<	100	ug/L		<				30
p&m-Xylene	D1	<	100	ug/L		<				30
p-Isopropyltoluene	D1	<	100	ug/L		<				30
sec-Butylbenzene	D1	<	100	ug/L		<				30

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Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

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Batch B6C0433 - EPA 5030B Preparation

Duplicate (B6C0433-DUP1) Source: 16C0573-14 **Prepared: 03/21/16 13:57 Analyzed: 03/21/16 13:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene	D1	<	100	ug/L		<				30
tert-Butylbenzene	D1	<	100	ug/L		<				30
Tetrachloroethene	D1	3200	100	ug/L		3100			3	30
Tetrahydrofuran (THF)	D1	<	1000	ug/L		<				30
Toluene	D1	<	100	ug/L		<				30
trans-1,2-Dichloroethene	D1	<	100	ug/L		<				30
trans-1,3-Dichloropropene	D1	<	100	ug/L		<				30
Trichloroethene (TCE)	D1	45	100	ug/L		<			14	30
Trichlorofluoromethane	D1	<	100	ug/L		<				30
Vinyl chloride	D1	38	100	ug/L		<			0	30

Matrix Spike (B6C0433-MS1) Source: 16C0573-13RE1 **Prepared: 03/21/16 12:04 Analyzed: 03/21/16 12:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	1100	100	ug/L	1,000	<	106	70-130		
1,1,1-Trichloroethane	D1	1200	100	ug/L	1,000	<	115	70-130		
1,1,2,2-Tetrachloroethane	D1	950	100	ug/L	1,000	<	95	70-130		
1,1,2-Trichloroethane	D1	980	100	ug/L	1,000	<	98	70-130		
1,1,2-Trichlorotrifluoroethane	D1	1300	100	ug/L	1,000	<	127	70-130		
1,1-Dichloroethane	D1	1100	100	ug/L	1,000	<	107	70-130		
1,1-Dichloroethene	D1	1200	100	ug/L	1,000	<	117	70-130		
1,1-Dichloropropene	D1	1100	100	ug/L	1,000	<	114	70-130		
1,2,3-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	108	70-130		
1,2,3-Trichloropropane	D1	990	100	ug/L	1,000	<	99	70-130		
1,2,4-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	107	70-130		
1,2,4-Trimethylbenzene	D1	1000	100	ug/L	1,000	<	105	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	900	500	ug/L	1,000	<	90	70-130		
1,2-Dibromoethane (EDB)	D1	1100	100	ug/L	1,000	<	106	70-130		
1,2-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	105	70-130		
1,2-Dichloroethane	D1	1000	100	ug/L	1,000	<	103	70-130		

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

Matrix Spike (B6C0433-MS1) Source: 16C0573-13RE1 **Prepared: 03/21/16 12:04 Analyzed: 03/21/16 12:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1	1000	100	ug/L	1,000	<	101	70-130		
1,3,5-Trimethylbenzene	D1	1000	100	ug/L	1,000	<	104	70-130		
1,3-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	107	70-130		
1,3-Dichloropropane	D1	1000	100	ug/L	1,000	<	102	70-130		
1,4-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	107	70-130		
2,2-Dichloropropane	D1	1200	100	ug/L	1,000	<	115	70-130		
2-Chlorotoluene	D1	1000	100	ug/L	1,000	<	105	70-130		
4-Chlorotoluene	D1	1000	100	ug/L	1,000	<	104	70-130		
Acetone	D1	11000	2000	ug/L	10,000	<	101	70-130		
Allyl chloride	D1	1100	100	ug/L	1,000	<	109	70-130		
Benzene	D1	1100	100	ug/L	1,000	<	109	70-130		
Bromobenzene	D1	1100	100	ug/L	1,000	<	108	70-130		
Bromochloromethane	D1	1100	100	ug/L	1,000	<	115	70-130		
Bromodichloromethane	D1	1000	100	ug/L	1,000	<	103	70-130		
Bromoform	D1	980	100	ug/L	1,000	<	98	70-130		
Bromomethane	D1	1100	200	ug/L	1,000	<	111	70-130		
Carbon tetrachloride	D1	1100	100	ug/L	1,000	<	112	70-130		
Chlorobenzene	D1	1100	100	ug/L	1,000	<	111	70-130		
Chlorodibromomethane	D1	1000	100	ug/L	1,000	<	102	70-130		
Chloroethane	D1	1100	100	ug/L	1,000	<	106	70-130		
Chloroform	D1	1100	100	ug/L	1,000	<	107	70-130		
Chloromethane	D1	1200	100	ug/L	1,000	<	118	70-130		
cis-1,2-Dichloroethene	D1	1300	100	ug/L	1,000	210	109	70-130		
cis-1,3-Dichloropropene	D1	1000	100	ug/L	1,000	<	100	70-130		
Dibromomethane	D1	1100	100	ug/L	1,000	<	106	70-130		
Dichlorodifluoromethane	D1	1300	100	ug/L	1,000	<	127	70-130		
Dichlorofluoromethane	D1	1100	100	ug/L	1,000	<	109	70-130		
Ethyl ether	D1	1000	100	ug/L	1,000	<	105	70-130		
Ethylbenzene	D1	1100	100	ug/L	1,000	<	110	70-130		
Hexachlorobutadiene	D1	1100	100	ug/L	1,000	<	112	70-130		
Isopropylbenzene	D1	1100	100	ug/L	1,000	<	110	70-130		
Methyl ethyl ketone (MEK)	D1	4800	1000	ug/L	5,000	<	96	70-130		
Methyl isobutyl ketone (MIBK)	D1	4600	500	ug/L	5,000	<	92	70-130		
Methyl tertiary butyl ether (MTBE)	D1	1000	200	ug/L	1,000	<	102	70-130		
Methylene chloride	D1	1100	200	ug/L	1,000	<	107	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0433 - EPA 5030B Preparation

Matrix Spike (B6C0433-MS1) Source: 16C0573-13RE1 **Prepared: 03/21/16 12:04 Analyzed: 03/21/16 12:04**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1	1000	100	ug/L	1,000	<	100	70-130		
n-Butylbenzene	D1	1000	100	ug/L	1,000	<	105	70-130		
n-Propylbenzene	D1	1100	100	ug/L	1,000	<	108	70-130		
o-Xylene	D1	1100	100	ug/L	1,000	<	109	70-130		
p&m-Xylene	D1	1100	100	ug/L	1,000	<	109	70-130		
p-Isopropyltoluene	D1	1100	100	ug/L	1,000	<	110	70-130		
sec-Butylbenzene	D1	1100	100	ug/L	1,000	<	112	70-130		
Styrene	D1	1000	100	ug/L	1,000	<	104	70-130		
tert-Butylbenzene	D1	1100	100	ug/L	1,000	<	110	70-130		
Tetrachloroethene	D1	4800	100	ug/L	1,000	3700	117	70-130		
Tetrahydrofuran (THF)	D1	9400	1000	ug/L	10,000	<	94	70-130		
Toluene	D1	1100	100	ug/L	1,000	<	110	70-130		
trans-1,2-Dichloroethene	D1	1100	100	ug/L	1,000	<	112	70-130		
trans-1,3-Dichloropropene	D1	1000	100	ug/L	1,000	<	100	70-130		
Trichloroethene (TCE)	D1	1200	100	ug/L	1,000	<	115	70-130		
Trichlorofluoromethane	D1	1200	100	ug/L	1,000	<	118	70-130		
Vinyl chloride	D1	1100	100	ug/L	1,000	<	108	70-130		

Batch B6C0459 - EPA 5030B Preparation

Blank (B6C0459-BLK1) **Prepared: 03/22/16 09:09 Analyzed: 03/22/16 09:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0459 - EPA 5030B Preparation

Blank (B6C0459-BLK1) **Prepared: 03/22/16 09:09 Analyzed: 03/22/16 09:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0459 - EPA 5030B Preparation

Blank (B6C0459-BLK1) **Prepared: 03/22/16 09:09 Analyzed: 03/22/16 09:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0459-BS1) **Prepared: 03/22/16 08:46 Analyzed: 03/22/16 08:46**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.2	1.0	ug/L	10		92	70-130		
1,1,1-Trichloroethane		9.7	1.0	ug/L	10		97	70-130		

FINAL REPORT

Report ID: 03312016160359

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0459 - EPA 5030B Preparation

LCS (B6C0459-BS1) **Prepared: 03/22/16 08:46 Analyzed: 03/22/16 08:46**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		8.6	1.0	ug/L	10		86	70-130		
1,1,2-Trichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		105	70-130		
1,1-Dichloroethane		9.2	1.0	ug/L	10		92	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		101	70-130		
1,1-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichloropropane		9.0	1.0	ug/L	10		90	70-130		
1,2,4-Trichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2,4-Trimethylbenzene		9.0	1.0	ug/L	10		90	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		8.0	5.0	ug/L	10		80	70-130		
1,2-Dibromoethane (EDB)		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichlorobenzene		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichloroethane		9.4	1.0	ug/L	10		94	70-130		
1,2-Dichloropropane		9.1	1.0	ug/L	10		91	70-130		
1,3,5-Trimethylbenzene		9.0	1.0	ug/L	10		90	70-130		
1,3-Dichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,3-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
1,4-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
2,2-Dichloropropane		9.5	1.0	ug/L	10		95	70-130		
2-Chlorotoluene		9.0	1.0	ug/L	10		90	70-130		
4-Chlorotoluene		9.1	1.0	ug/L	10		91	70-130		
Acetone		98	20	ug/L	100		98	70-130		
Allyl chloride		9.3	1.0	ug/L	10		93	70-130		
Benzene		9.6	1.0	ug/L	10		96	70-130		
Bromobenzene		9.5	1.0	ug/L	10		95	70-130		
Bromochloromethane		10	1.0	ug/L	10		100	70-130		
Bromodichloromethane		9.1	1.0	ug/L	10		91	70-130		
Bromoform		8.6	1.0	ug/L	10		86	70-130		
Bromomethane		8.1	2.0	ug/L	10		81	70-130		
Carbon tetrachloride		9.4	1.0	ug/L	10		94	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		8.8	1.0	ug/L	10		88	70-130		
Chloroethane		8.8	1.0	ug/L	10		88	70-130		
Chloroform		9.5	1.0	ug/L	10		95	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: None
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 03/31/16 16:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0459 - EPA 5030B Preparation

LCS (B6C0459-BS1) **Prepared: 03/22/16 08:46 Analyzed: 03/22/16 08:46**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		10	1.0	ug/L	10		101	70-130		
cis-1,2-Dichloroethene		9.9	1.0	ug/L	10		99	70-130		
cis-1,3-Dichloropropene		8.9	1.0	ug/L	10		89	70-130		
Dibromomethane		9.7	1.0	ug/L	10		97	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		103	70-130		
Dichlorofluoromethane		9.2	1.0	ug/L	10		92	70-130		
Ethyl ether		9.4	1.0	ug/L	10		94	70-130		
Ethylbenzene		9.5	1.0	ug/L	10		95	70-130		
Hexachlorobutadiene		9.5	1.0	ug/L	10		95	70-130		
Isopropylbenzene		9.1	1.0	ug/L	10		91	70-130		
Methyl ethyl ketone (MEK)		46	10	ug/L	50		93	70-130		
Methyl isobutyl ketone (MIBK)		43	5.0	ug/L	50		86	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		9.6	2.0	ug/L	10		96	70-130		
Naphthalene		9.3	1.0	ug/L	10		93	70-130		
n-Butylbenzene		8.9	1.0	ug/L	10		89	70-130		
n-Propylbenzene		9.2	1.0	ug/L	10		92	70-130		
o-Xylene		9.4	1.0	ug/L	10		94	70-130		
p&m-Xylene		9.4	1.0	ug/L	10		94	70-130		
p-Isopropyltoluene		9.4	1.0	ug/L	10		94	70-130		
sec-Butylbenzene		9.4	1.0	ug/L	10		94	70-130		
Styrene		9.3	1.0	ug/L	10		93	70-130		
tert-Butylbenzene		9.3	1.0	ug/L	10		93	70-130		
Tetrachloroethene		9.7	1.0	ug/L	10		97	70-130		
Tetrahydrofuran (THF)		90	10	ug/L	100		90	70-130		
Toluene		9.4	1.0	ug/L	10		94	70-130		
trans-1,2-Dichloroethene		9.7	1.0	ug/L	10		97	70-130		
trans-1,3-Dichloropropene		8.9	1.0	ug/L	10		89	70-130		
Trichloroethene (TCE)		9.8	1.0	ug/L	10		98	70-130		
Trichlorofluoromethane		9.9	1.0	ug/L	10		99	70-130		
Vinyl chloride		9.2	1.0	ug/L	10		92	70-130		

Authorized by:

The results in this report apply only to the samples analyzed.
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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Data Qualifiers and Definitions

W8	Sample/sample duplicate relative percent difference exceeded the laboratory acceptance limit.
Q4	Sample received and analyzed without chemical preservation.
Q2	Sample received with head space.
M2	Matrix spike and/or matrix spike duplicate recovery was low; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 4/5/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16C0973

Report To: PL - MPCA - Metro MERLA-SF
Bill Scruton
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164
(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Work Order Comment: Add sample point for B25-W-(41-45) collected 3/16/16 at 16:15, run for VOCs in Water 8260 per J. Jevnisek. EES 3/21/16

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B24-W-(88-92)	16C0973-01	Wtr-Ground	03/16/16 9:30	03/18/16 13:35	1.3
B24-W-(74-78)	16C0973-02	Wtr-Ground	03/16/16 10:00	03/18/16 13:35	1.3
B24-W-(61-65)	16C0973-03	Wtr-Ground	03/16/16 10:10	03/18/16 13:35	1.3
B24-W-(51-55)	16C0973-04	Wtr-Ground	03/16/16 10:20	03/18/16 13:35	1.3
B24-W-(47-51)	16C0973-05	Wtr-Ground	03/16/16 10:30	03/18/16 13:35	1.3
B23-W-(89-93)	16C0973-06	Wtr-Ground	03/16/16 11:15	03/18/16 13:35	1.3
B23-W-(78-82)	16C0973-07	Wtr-Ground	03/16/16 11:30	03/18/16 13:35	1.3
B23-W-(74-78)	16C0973-08	Wtr-Ground	03/16/16 11:45	03/18/16 13:35	1.3
B23-W-(61-65)	16C0973-09	Wtr-Ground	03/16/16 12:00	03/18/16 13:35	1.3
B23-W-(54-58)	16C0973-10	Wtr-Ground	03/16/16 12:15	03/18/16 13:35	1.3
B23-W-(50-54)	16C0973-11	Wtr-Ground	03/16/16 12:30	03/18/16 13:35	1.3
B23-W-(46-50)	16C0973-12	Wtr-Ground	03/16/16 12:45	03/18/16 13:35	1.3
B25-W-(93-97)	16C0973-13	Wtr-Ground	03/16/16 14:00	03/18/16 13:35	1.3
B25-W-(73-77)	16C0973-14	Wtr-Ground	03/16/16 14:15	03/18/16 13:35	1.3
B25-W-(69-73)	16C0973-15	Wtr-Ground	03/16/16 14:30	03/18/16 13:35	1.3
B25-W-(65-69)	16C0973-16	Wtr-Ground	03/16/16 14:45	03/18/16 13:35	1.3
B25-W-(58-62)	16C0973-17	Wtr-Ground	03/16/16 15:15	03/18/16 13:35	1.3
B25-W-(54-58)	16C0973-18	Wtr-Ground	03/16/16 15:30	03/18/16 13:35	1.3
B25-W-(45-49)	16C0973-19	Wtr-Ground	03/16/16 16:00	03/18/16 13:35	1.3
Dup-W-7	16C0973-20	Wtr-Ground	03/16/16 0:00	03/18/16 13:35	1.3
Dup-W-8	16C0973-21	Wtr-Ground	03/16/16 0:00	03/18/16 13:35	1.3
B39-W-(57-61)	16C0973-22	Wtr-Ground	03/18/16 9:00	03/18/16 13:35	1.3
B39-W-(53-57)	16C0973-23	Wtr-Ground	03/18/16 9:15	03/18/16 13:35	1.3
B39-W-(48-52)	16C0973-24	Wtr-Ground	03/18/16 9:30	03/18/16 13:35	1.3
B38-W-(56-60)	16C0973-25	Wtr-Ground	03/18/16 10:00	03/18/16 13:35	1.3
B38-W-(45-49)	16C0973-26	Wtr-Ground	03/18/16 10:15	03/18/16 13:35	1.3
B37-W-(49-53)	16C0973-27	Wtr-Ground	03/18/16 11:00	03/18/16 13:35	1.3
ERB-1	16C0973-28	QC-BLANK	03/18/16 11:10	03/18/16 13:35	1.3
B37-W-(41-45)	16C0973-29	Wtr-Ground	03/18/16 11:15	03/18/16 13:35	1.3
TripBlank4	16C0973-30	QC-BLANK	03/16/16 7:00	03/18/16 13:35	1.3
B25-W-(41-45)	16C0973-31	Wtr-Ground	03/16/16 16:15	03/18/16 13:35	1.3

FINAL REPORT

Report ID: 04052016130349

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Field ID	MDH Sample Number	Receiving Comments
B25-W-(41-45)	16C0973-31	Sample point added per collector. EES

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 | COC Type: Standard | Page ___ of 3

Turnaround Time: Standard | COC ID:

16C0973

PROJECT/CLIENT INFO

Facility Code:	SR377
Program Code (MDH Lab Only):	PL
Project Name:	Saint Louis Park Investigation FY16
Project Task Code:	PRJ07955
Project Manager:	Jennifer Jevnisek
Potential Hazard?	N If yes, add information to Sampler Comments Section

LABORATORY

Lab Name:	Minnesota Department of Health
Address:	601 Robert Street N.
	St. Paul, MN 55155
Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B24-W-(88-92)	Sample	3-16-16	0930			G	WTR-Ground	WTR-Ground			3	3	-01	1
B24-W-(74-78)	Sample	3-16-16	1000			G	WTR-Ground	WTR-Ground			3	3	-02	2
B24-W-(61-65)	Sample	3-16-16	1010			G	WTR-Ground	WTR-Ground			3	3	-03	3
B24-W-(51-55)	Sample	3-16-16	1020			G	NW	WTR Ground			3	3	-04	4
B24-W-(47-51)	Sample	3-16-16	1030			G	NW	WTR Ground			3	3	-05	5
B23-W-(89-93)	Sample	3-16-16	1115			G	NW	WTR Ground			3	3	-06	6
B23-W-(78-82)	Sample	3-16-16	1130			G	NW	WTR Ground			3	3	-07	7
B23-W-(74-78)	Sample	3-16-16	1145			G	NW	WTR-Ground			3	3	-08	8
B23-W-(61-65)	Sample	3-16-16	1200			G	NW	WTR-Ground			3	3	-09	9
B23-W(54-58)	Sample	3-16-16	1215			G	NW	WTR-Ground			3	3	-10	10

Sampled By: ~~Melissa Meeuwsen~~ Ben Klaus

Sampler's Signature:

Phone #: ~~612-298-2074~~ 612-376-2465

Receiving Comments:

	Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler)	Ben Klaus / AECOM 3-18-16	1335	[illegible] / MDH 3/18/16	1335

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 **COC Type:** Standard **Page:** 2 of 3

Turnaround Time: Standard **COC ID:**

16C0973

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377 — Program Code (MDH Lab Only): PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16 — Project Task Code: PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section	Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B23-W-(50-54)	Sample	3-16-16	1230			G	NW	Wtr-Ground			3	3	-11	1
B23-W-(46-50)	Sample	3-16-16	1245			G	NW	Wtr-Ground			3	3	-12	2
B25-W-(93-97)	Sample	3-16-16	1400			G	NW	Wtr-Ground			3	3	-13	3
B25-W-(73-77)	Sample	3-16-16	1415			G	NW	Wtr-Ground			3	3	-14	4
B25-W-(69-73)	Sample	3-16-16	1430			G	NW	Wtr-Ground			3	3	-15	5
B25-W-(65-69)	Sample	3-16-16	1445			G	NW	Wtr-Ground			3	3	-16	6
B25-W-(58-62)	Sample	3-16-16	1515			G	NW	Wtr-Ground			3	3	-17	7
B25-W-(54-58)	Sample	3-16-16	1530			G	NW	Wtr-Ground			3	3	-18	8
B25-W-(45-49)	Sample	3-16-16	1600			G	NW	Wtr-Ground			3	3	-19	9
~~B23~~ Dup-W-7	QC-FR	3-16-16				G	NW	Wtr-Ground			3	3	-20	10

Sampled By: ~~Melissa Meeuwsen~~ Ben Klaus **Sampler's Signature:** **Phone #:** ~~612-298-2074~~ 612-376-2465

Receiving Comments:

	Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler)	Ben Klaus / AECOM	3-18-16 / 1335	[illegible] 3/18/16	1335

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.0909

Work Order Number: 3000015334 | COC Type: Standard | Page: 3 of 3

Turnaround Time: Standard | COC ID:

16C0973

PROJECT/CLIENT INFO		LABORATORY	
Facility Code:	SR377 — Program Code (MDH Lab Only): PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16 — Project Task Code: PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek		St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section	Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
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FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
Dup-W-8	QC-FB	3-16-16				G	NW	Wtr-Ground			3	3	-21	1
B39-W-(57-61)	Sample	3-18-16	0900			G	NW	Wtr-Ground			3	3	-22	2
B39-W-(53-57)	Sample	3-18-16	0915			G	NW	Wtr-Ground			3	3	-23	3
B39-W-(48-52)	Sample	3-18-16	0930			G	NW	Wtr-Ground			3	3	-24	4
B38-W-(56-60)	Sample	3-18-16	1000			G	NW	Wtr-Ground			3	3	-25	5
B38-W-(45-49)	Sample	3-18-16	1015			G	NW	Wtr-Ground			3	3	-26	6
B37-W-(49-53)	Sample	3-18-16	1100			G	NW	Wtr-Ground			3	3	-27	7
EBB-1	QC-FB	3-18-16	1110			G	NW	QC-Blank			3	3	-28	8
B37-W-(41-45)	Sample	3-18-16	1115			G	NW	Wtr-Ground			3	3		9
TripBlank 4	QC-TB	3-18-16	0700			G	NW	QC Blank			3	3		10

Sampled By: ~~Melissa Meouwsen~~ Ben Klaus | Sampler's Signature: | Phone #: ~~612.298.2074~~ 612-376-2465

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) Ben Klaus / Accom	3/18/16 / 1335	[illegible] / MDH 3/18/16	1335

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16C0973

Parcel Information

Date & time of receipt: MAR 18 '16 13:35

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☑ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☑ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☐ None ☐ Other_____

Custody seals present: ☐ Yes ☑ No; Custody seals intact: ☐ Yes ☐ No ☑ N/A

Custody seal #_____. **Evidentiary samples identified:** ☐ Yes ☑ No

Packaging Information

Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☑ None ☐ Other_____

Cooling material: ☑ Wet ice ☐ Ice-pack( ) ☐ Gel pack( ) ☐ Dry ice ☐ None ☐ Other_____

Condition of cooling material: ☑ Solid ☐ Partial ☐ Liquid; Liquid temperature: _____ °C ☐ N/A

Representative sample temperature: 1-3 °C **IR thermometer instrument used:** AS

Initials of person receiving parcel: [illegible]

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☑ Yes ☐ No

Chain of custody type: ☑ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☑ No, **Sample survey results:** ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☑ Yes ☐ No

Samples received with evidence of freezing: ☐ Yes ☑ No

All sample containers are unique to the sample point listed on the chain of custody: ☐ Yes ☑ No

All samples have been received within the specified holding time for analysis: ☑ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☐ Yes ☑ No

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request: [illegible]

DOC-84
Revision: 2

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected by: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/2016 13:03

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

The results in this report apply only to the samples analyzed.
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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-01RE1

Location ID: B24-W-(88-92)	Collect Date: 03/16/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 9:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 12:50*	*03/23/16 12:50*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 12:50*	*03/23/16 12:50*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 12:50*	*03/23/16 12:50*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 12:50*	*03/23/16 12:50*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 12:50*	*03/23/16 12:50*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-01RE1

Location ID: B24-W-(88-92)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 9:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
cis-1,2-Dichloroethene	D1	**3400**	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-01RE1

Location ID: B24-W-(88-92)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 9:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Tetrachloroethene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
trans-1,2-Dichloroethene	D1	**140**	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B
Vinyl chloride	D1	**200**	100	ug/L	1	B6C0490	03/23/16 12:50	03/23/16 12:50	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-02

Location ID: B24-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:35*	*03/23/16 13:35*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:35*	*03/23/16 13:35*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:35*	*03/23/16 13:35*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:35*	*03/23/16 13:35*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:35*	*03/23/16 13:35*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-02

Location ID: B24-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Benzene	D1	**39**	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-02

Location ID: B24-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
trans-1,2-Dichloroethene	D1	**110**	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B
Vinyl chloride	D1	**230**	25	ug/L	1	B6C0490	03/23/16 13:35	03/23/16 13:35	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-02RE1

Location ID: B24-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:27*	*03/24/16 17:27*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:27*	*03/24/16 17:27*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:27*	*03/24/16 17:27*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:27*	*03/24/16 17:27*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:27*	*03/24/16 17:27*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**4400**	100	ug/L	1	B6C0525	03/24/16 17:27	03/24/16 17:27	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-03

Location ID: B24-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:58*	*03/23/16 13:58*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:58*	*03/23/16 13:58*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:58*	*03/23/16 13:58*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:58*	*03/23/16 13:58*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 13:58*	*03/23/16 13:58*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-03

Location ID: B24-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-03

Location ID: B24-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Tetrachloroethene	D1	**1600**	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
trans-1,2-Dichloroethene	D1	**86**	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Trichloroethene (TCE)	D1	**1600**	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B
Vinyl chloride	D1	**69**	25	ug/L	1	B6C0490	03/23/16 13:58	03/23/16 13:58	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-03RE1

Location ID: B24-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:50*	*03/24/16 17:50*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:50*	*03/24/16 17:50*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:50*	*03/24/16 17:50*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:50*	*03/24/16 17:50*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	%	*1*	*B6C0525*	*03/24/16 17:50*	*03/24/16 17:50*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**5800**	200	ug/L	1	B6C0525	03/24/16 17:50	03/24/16 17:50	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-04

Location ID: B24-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2, Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:20*	*03/23/16 14:20*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2, Q4	*99*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:20*	*03/23/16 14:20*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2, Q4	*96*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:20*	*03/23/16 14:20*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2, Q4	*99*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:20*	*03/23/16 14:20*	*EPA 8260B*
Surrogate: Toluene-d8	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:20*	*03/23/16 14:20*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1,1-Trichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1,2,2-Tetrachloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1,2-Trichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1,2-Trichlorotrifluoroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1-Dichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1-Dichloroethene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,1-Dichloropropene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2,3-Trichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2,3-Trichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2,4-Trichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2,4-Trimethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q2, Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2-Dibromoethane (EDB)	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2-Dichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2-Dichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,2-Dichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,3,5-Trimethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,3-Dichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,3-Dichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
1,4-Dichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B

Authorized by:

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-04

Location ID: B24-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
2-Chlorotoluene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
4-Chlorotoluene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Acetone	Q2, Q4, D1	<	500	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Allyl chloride	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Benzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Bromobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Bromochloromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Bromodichloromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Bromoform	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Bromomethane	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Carbon tetrachloride	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Chlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Chlorodibromomethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Chloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Chloroform	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Chloromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
cis-1,2-Dichloroethene	Q2, D1, Q4	**1000**	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
cis-1,3-Dichloropropene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Dibromomethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Dichlorodifluoromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Dichlorofluoromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Ethyl ether	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Ethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Hexachlorobutadiene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Isopropylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Methyl ethyl ketone (MEK)	Q2, Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-04

Location ID: B24-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q2, Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Methylene chloride	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Naphthalene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
n-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
n-Propylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
o-Xylene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
p&m-Xylene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
p-Isopropyltoluene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
sec-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Styrene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
tert-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Tetrachloroethene	Q2, D1, Q4	**120**	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Tetrahydrofuran (THF)	Q2, D1, Q4	<	250	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Toluene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
trans-1,2-Dichloroethene	Q2, Q4, D1	**27**	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
trans-1,3-Dichloropropene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Trichloroethene (TCE)	Q2, D1, Q4	**140**	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Trichlorofluoromethane	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B
Vinyl chloride	Q2, D1, Q4	**46**	25	ug/L	1	B6C0490	03/23/16 14:20	03/23/16 14:20	EPA 8260B

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-05

Location ID: B24-W-(47-51)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2, Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:43*	*03/23/16 14:43*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2, Q4	*101*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:43*	*03/23/16 14:43*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:43*	*03/23/16 14:43*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2, Q4	*99*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:43*	*03/23/16 14:43*	*EPA 8260B*
Surrogate: Toluene-d8	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 14:43*	*03/23/16 14:43*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1,1-Trichloroethane	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1,2,2-Tetrachloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1,2-Trichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1,2-Trichlorotrifluoroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1-Dichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1-Dichloroethene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,1-Dichloropropene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2,3-Trichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2,3-Trichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2,4-Trichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2,4-Trimethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q2, Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2-Dibromoethane (EDB)	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2-Dichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2-Dichloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,2-Dichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,3,5-Trimethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,3-Dichlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,3-Dichloropropane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
1,4-Dichlorobenzene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-05

Location ID: B24-W-(47-51)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
2-Chlorotoluene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
4-Chlorotoluene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Acetone	Q2, D1, Q4	<	500	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Allyl chloride	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Benzene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Bromobenzene	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Bromochloromethane	Q2, D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Bromodichloromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Bromoform	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Bromomethane	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Carbon tetrachloride	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Chlorobenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Chlorodibromomethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Chloroethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Chloroform	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Chloromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
cis-1,2-Dichloroethene	Q2, Q4, D1	**730**	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
cis-1,3-Dichloropropene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Dibromomethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Dichlorodifluoromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Dichlorofluoromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Ethyl ether	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Ethylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Hexachlorobutadiene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Isopropylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Methyl ethyl ketone (MEK)	Q2, Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-05

Location ID: B24-W-(47-51)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 10:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q2, Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Methylene chloride	Q2, Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Naphthalene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
n-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
n-Propylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
o-Xylene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
p&m-Xylene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
p-Isopropyltoluene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
sec-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Styrene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
tert-Butylbenzene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Tetrachloroethene	Q2, Q4, D1	**32**	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Tetrahydrofuran (THF)	Q2, Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Toluene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
trans-1,2-Dichloroethene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
trans-1,3-Dichloropropene	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Trichloroethene (TCE)	Q2, Q4, D1	**39**	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Trichlorofluoromethane	Q2, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B
Vinyl chloride	Q2, Q4, D1	**31**	25	ug/L	1	B6C0490	03/23/16 14:43	03/23/16 14:43	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-06

Location ID: B23-W-(89-93)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6C0490*	*03/23/16 11:35*	*03/23/16 11:35*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6C0490*	*03/23/16 11:35*	*03/23/16 11:35*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 11:35*	*03/23/16 11:35*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 11:35*	*03/23/16 11:35*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*98*	*70-130*	%	*1*	*B6C0490*	*03/23/16 11:35*	*03/23/16 11:35*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1,1-Trichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1,2,2-Tetrachloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1,2-Trichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1,2-Trichlorotrifluoroethane	M1, Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1-Dichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1-Dichloroethene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,1-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2,3-Trichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2,3-Trichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2,4-Trichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2,4-Trimethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2-Dibromoethane (EDB)	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2-Dichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,2-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,3,5-Trimethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,3-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,3-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
1,4-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B

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St. Paul, MN 55164-0899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-06

Location ID: B23-W-(89-93)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
2-Chlorotoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
4-Chlorotoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Acetone	Q4, D1	<	500	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Allyl chloride	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Benzene	Q4, D1	**28**	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Bromobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Bromochloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Bromodichloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Bromoform	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Bromomethane	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Carbon tetrachloride	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Chlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Chlorodibromomethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Chloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Chloroform	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Chloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
cis-1,2-Dichloroethene	M1, Q4, E3, D1	**2900**	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
cis-1,3-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Dibromomethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Dichlorodifluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Dichlorofluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Ethyl ether	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Ethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Hexachlorobutadiene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Isopropylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Methyl ethyl ketone (MEK)	Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-06

Location ID: B23-W-(89-93)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Methylene chloride	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Naphthalene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
n-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
n-Propylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
o-Xylene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
p&m-Xylene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
p-Isopropyltoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
sec-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Styrene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
tert-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Tetrachloroethene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Tetrahydrofuran (THF)	Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Toluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
trans-1,2-Dichloroethene	Q4, D1	**63**	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
trans-1,3-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Trichloroethene (TCE)	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Trichlorofluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B
Vinyl chloride	Q4, D1	**210**	25	ug/L	1	B6C0490	03/23/16 11:35	03/23/16 11:35	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-07

Location ID: B23-W-(78-82)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:06*	*03/23/16 15:06*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:06*	*03/23/16 15:06*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:06*	*03/23/16 15:06*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:06*	*03/23/16 15:06*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:06*	*03/23/16 15:06*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-07

Location ID: B23-W-(78-82)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Benzene	D1	**28**	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-07

Location ID: B23-W-(78-82)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
trans-1,2-Dichloroethene	D1	**65**	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B
Vinyl chloride	D1	**230**	25	ug/L	1	B6C0490	03/23/16 15:06	03/23/16 15:06	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-07RE1

Location ID: B23-W-(78-82)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 18:13*	*03/24/16 18:13*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 18:13*	*03/24/16 18:13*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 18:13*	*03/24/16 18:13*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 18:13*	*03/24/16 18:13*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 18:13*	*03/24/16 18:13*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**2900**	100	ug/L	1	B6C0525	03/24/16 18:13	03/24/16 18:13	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-08

Location ID: B23-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:28*	*03/23/16 15:28*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:28*	*03/23/16 15:28*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:28*	*03/23/16 15:28*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:28*	*03/23/16 15:28*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:28*	*03/23/16 15:28*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-08

Location ID: B23-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Benzene	D1	**29**	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-08

Location ID: B23-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
trans-1,2-Dichloroethene	D1	**66**	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B
Vinyl chloride	D1	**230**	25	ug/L	1	B6C0490	03/23/16 15:28	03/23/16 15:28	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-08RE1

Location ID: B23-W-(74-78)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 11:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0525*	*03/24/16 19:20*	*03/24/16 19:20*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*104*	*70-130*	%	*1*	*B6C0525*	*03/24/16 19:20*	*03/24/16 19:20*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	%	*1*	*B6C0525*	*03/24/16 19:20*	*03/24/16 19:20*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	%	*1*	*B6C0525*	*03/24/16 19:20*	*03/24/16 19:20*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	%	*1*	*B6C0525*	*03/24/16 19:20*	*03/24/16 19:20*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**2900**	100	ug/L	1	B6C0525	03/24/16 19:20	03/24/16 19:20	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-09

Location ID: B23-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:51*	*03/23/16 15:51*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:51*	*03/23/16 15:51*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:51*	*03/23/16 15:51*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:51*	*03/23/16 15:51*	*EPA 8260B*
Surrogate: Toluene-d8		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 15:51*	*03/23/16 15:51*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-09

Location ID: B23-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
cis-1,2-Dichloroethene	D1	**500**	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B

Authorized by:

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Public Health Laboratory
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-09

Location ID: B23-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Trichloroethene (TCE)	D1	**130**	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B
Vinyl chloride	D1	**35**	25	ug/L	1	B6C0490	03/23/16 15:51	03/23/16 15:51	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-09RE1

Location ID: B23-W-(61-65)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:58*	*03/24/16 18:58*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:58*	*03/24/16 18:58*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:58*	*03/24/16 18:58*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:58*	*03/24/16 18:58*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:58*	*03/24/16 18:58*	*EPA 8260B*
Tetrachloroethene	D1	**1900**	100	ug/L	1	B6C0525	03/24/16 18:58	03/24/16 18:58	EPA 8260B

Authorized by:

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-10

Location ID: B23-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:14*	*03/23/16 16:14*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:14*	*03/23/16 16:14*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:14*	*03/23/16 16:14*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:14*	*03/23/16 16:14*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:14*	*03/23/16 16:14*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-10

Location ID: B23-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
cis-1,2-Dichloroethene	D1	**140**	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-10

Location ID: B23-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Tetrachloroethene	D1	**1400**	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Trichloroethene (TCE)	D1	**60**	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:14	03/23/16 16:14	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-11

Location ID: B23-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 16:37*	*03/23/16 16:37*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6C0490*	*03/23/16 16:37*	*03/23/16 16:37*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*96*	*70-130*	%	*1*	*B6C0490*	*03/23/16 16:37*	*03/23/16 16:37*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6C0490*	*03/23/16 16:37*	*03/23/16 16:37*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*98*	*70-130*	%	*1*	*B6C0490*	*03/23/16 16:37*	*03/23/16 16:37*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1,1-Trichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1,2,2-Tetrachloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1,2-Trichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1,2-Trichlorotrifluoroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1-Dichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1-Dichloroethene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,1-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2,3-Trichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2,3-Trichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2,4-Trichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2,4-Trimethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2-Dibromoethane (EDB)	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2-Dichloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,2-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,3,5-Trimethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,3-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,3-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
1,4-Dichlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-11

Location ID: B23-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
2-Chlorotoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
4-Chlorotoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Acetone	Q4, D1	<	500	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Allyl chloride	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Benzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Bromobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Bromochloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Bromodichloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Bromoform	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Bromomethane	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Carbon tetrachloride	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Chlorobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Chlorodibromomethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Chloroethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Chloroform	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Chloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
cis-1,2-Dichloroethene	Q4, D1	**210**	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
cis-1,3-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Dibromomethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Dichlorodifluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Dichlorofluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Ethyl ether	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Ethylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Hexachlorobutadiene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Isopropylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Methyl ethyl ketone (MEK)	Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-11

Location ID: B23-W-(50-54)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q4, D1	<	120	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Methyl tertiary butyl ether (MTBE)	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Methylene chloride	Q4, D1	<	50	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Naphthalene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
n-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
n-Propylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
o-Xylene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
p&m-Xylene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
p-Isopropyltoluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
sec-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Styrene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
tert-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Tetrachloroethene	Q4, D1	**790**	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Tetrahydrofuran (THF)	Q4, D1	<	250	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Toluene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
trans-1,2-Dichloroethene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
trans-1,3-Dichloropropene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Trichloroethene (TCE)	Q4, D1	**29**	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Trichlorofluoromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B
Vinyl chloride	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 16:37	03/23/16 16:37	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-12

Location ID: B23-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:59*	*03/23/16 16:59*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:59*	*03/23/16 16:59*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:59*	*03/23/16 16:59*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:59*	*03/23/16 16:59*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 16:59*	*03/23/16 16:59*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-12

Location ID: B23-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
cis-1,2-Dichloroethene	D1	**260**	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-12

Location ID: B23-W-(46-50)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Tetrachloroethene	D1	**530**	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 16:59	03/23/16 16:59	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-13

Location ID: B25-W-(93-97)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 17:22*	*03/23/16 17:22*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 17:22*	*03/23/16 17:22*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 17:22*	*03/23/16 17:22*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*99*	*70-130*	%	*1*	*B6C0490*	*03/23/16 17:22*	*03/23/16 17:22*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*97*	*70-130*	%	*1*	*B6C0490*	*03/23/16 17:22*	*03/23/16 17:22*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-13

Location ID: B25-W-(93-97)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Benzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Bromobenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Chloromethane	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**420**	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Ethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-13

Location ID: B25-W-(93-97)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Naphthalene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Tetrachloroethene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**130**	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B
Vinyl chloride	D1, Q4	**100**	25	ug/L	1	B6C0490	03/23/16 17:22	03/23/16 17:22	EPA 8260B

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Minnesota Department of Health
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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-14

Location ID: B25-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 17:44*	*03/23/16 17:44*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 17:44*	*03/23/16 17:44*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 17:44*	*03/23/16 17:44*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 17:44*	*03/23/16 17:44*	*EPA 8260B*
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 17:44*	*03/23/16 17:44*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B

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Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-14

Location ID: B25-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
cis-1,2-Dichloroethene	D1	**800**	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-14

Location ID: B25-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
trans-1,2-Dichloroethene	D1	**94**	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B
Vinyl chloride	D1	**150**	25	ug/L	1	B6C0490	03/23/16 17:44	03/23/16 17:44	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-15

Location ID: B25-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:07*	*03/23/16 18:07*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:07*	*03/23/16 18:07*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:07*	*03/23/16 18:07*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:07*	*03/23/16 18:07*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:07*	*03/23/16 18:07*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-15

Location ID: B25-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Benzene	D1	**25**	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
cis-1,2-Dichloroethene	D1	**660**	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-15

Location ID: B25-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
trans-1,2-Dichloroethene	D1	**72**	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B
Vinyl chloride	D1	**130**	25	ug/L	1	B6C0490	03/23/16 18:07	03/23/16 18:07	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-16

Location ID: B25-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:30*	*03/23/16 18:30*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:30*	*03/23/16 18:30*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:30*	*03/23/16 18:30*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:30*	*03/23/16 18:30*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:30*	*03/23/16 18:30*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-16

Location ID: B25-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
cis-1,2-Dichloroethene	D1	**430**	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-16

Location ID: B25-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 14:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
trans-1,2-Dichloroethene	D1	**59**	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B
Vinyl chloride	D1	**120**	25	ug/L	1	B6C0490	03/23/16 18:30	03/23/16 18:30	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-17

Location ID: B25-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:52*	*03/23/16 18:52*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:52*	*03/23/16 18:52*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:52*	*03/23/16 18:52*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:52*	*03/23/16 18:52*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0490*	*03/23/16 18:52*	*03/23/16 18:52*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B

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St. Paul, MN 55164-0899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-17

Location ID: B25-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
cis-1,2-Dichloroethene	D1	**1400**	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-17

Location ID: B25-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Tetrachloroethene	D1	**120**	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
trans-1,2-Dichloroethene	D1	**59**	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Trichloroethene (TCE)	D1	**120**	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B
Vinyl chloride	D1	**47**	25	ug/L	1	B6C0490	03/23/16 18:52	03/23/16 18:52	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-18

Location ID: B25-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0490*	*03/23/16 19:15*	*03/23/16 19:15*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6C0490*	*03/23/16 19:15*	*03/23/16 19:15*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*96*	*70-130*	%	*1*	*B6C0490*	*03/23/16 19:15*	*03/23/16 19:15*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6C0490*	*03/23/16 19:15*	*03/23/16 19:15*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*96*	*70-130*	%	*1*	*B6C0490*	*03/23/16 19:15*	*03/23/16 19:15*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-18

Location ID: B25-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Benzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Ethylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-18

Location ID: B25-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Naphthalene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
n-Butylbenzene	Q4, D1	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**53**	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B
Vinyl chloride	D1, Q4	**26**	25	ug/L	1	B6C0490	03/23/16 19:15	03/23/16 19:15	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-18RE1

Location ID: B25-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 15:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2, Q4	*99*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:35*	*03/24/16 18:35*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2, Q4	*102*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:35*	*03/24/16 18:35*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2, Q4	*96*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:35*	*03/24/16 18:35*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2, Q4	*98*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:35*	*03/24/16 18:35*	*EPA 8260B*
Surrogate: Toluene-d8	Q2, Q4	*96*	*70-130*	%	*1*	*B6C0525*	*03/24/16 18:35*	*03/24/16 18:35*	*EPA 8260B*
cis-1,2-Dichloroethene	D1, Q2, Q4	**2200**	100	ug/L	1	B6C0525	03/24/16 18:35	03/24/16 18:35	EPA 8260B
Tetrachloroethene	D1, Q2, Q4	**4700**	100	ug/L	1	B6C0525	03/24/16 18:35	03/24/16 18:35	EPA 8260B
Trichloroethene (TCE)	D1, Q2, Q4	**4200**	100	ug/L	1	B6C0525	03/24/16 18:35	03/24/16 18:35	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-19

Location ID: B25-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:56*	*03/24/16 12:56*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:56*	*03/24/16 12:56*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:56*	*03/24/16 12:56*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:56*	*03/24/16 12:56*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:56*	*03/24/16 12:56*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-19

Location ID: B25-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
cis-1,2-Dichloroethene	D1	**97**	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-19

Location ID: B25-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Tetrachloroethene	D1	**110**	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Trichloroethene (TCE)	D1	**94**	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0525	03/24/16 12:56	03/24/16 12:56	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-20

Location ID: Dup-W-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 14:04*	*03/24/16 14:04*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 14:04*	*03/24/16 14:04*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 14:04*	*03/24/16 14:04*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 14:04*	*03/24/16 14:04*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 14:04*	*03/24/16 14:04*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-20

Location ID: Dup-W-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Benzene	D1	**27**	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-20

Location ID: Dup-W-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
trans-1,2-Dichloroethene	D1	**68**	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B
Vinyl chloride	D1	**220**	25	ug/L	1	B6C0525	03/24/16 14:04	03/24/16 14:04	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-20RE1

Location ID: Dup-W-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:10*	*03/25/16 15:10*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2	*103*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:10*	*03/25/16 15:10*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2	*96*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:10*	*03/25/16 15:10*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:10*	*03/25/16 15:10*	*EPA 8260B*
Surrogate: Toluene-d8	Q2	*96*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:10*	*03/25/16 15:10*	*EPA 8260B*
cis-1,2-Dichloroethene	D1, Q2	**2800**	100	ug/L	1	B6C0568	03/25/16 15:10	03/25/16 15:10	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-21

Location ID: Dup-W-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*99*	*70-130*	%	*1*	*B6C0525*	*03/24/16 14:26*	*03/24/16 14:26*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6C0525*	*03/24/16 14:26*	*03/24/16 14:26*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*95*	*70-130*	%	*1*	*B6C0525*	*03/24/16 14:26*	*03/24/16 14:26*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*99*	*70-130*	%	*1*	*B6C0525*	*03/24/16 14:26*	*03/24/16 14:26*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*97*	*70-130*	%	*1*	*B6C0525*	*03/24/16 14:26*	*03/24/16 14:26*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2,3-Trichloropropane	Q4, D1	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-21

Location ID: Dup-W-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Benzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Ethylbenzene	Q4, D1	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-21

Location ID: Dup-W-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Naphthalene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
n-Propylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
o-Xylene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
p&m-Xylene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**56**	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B
Vinyl chloride	Q4, D1	**26**	25	ug/L	1	B6C0525	03/24/16 14:26	03/24/16 14:26	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-21RE1

Location ID: Dup-W-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 03/16/16
Collect Time: 0:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2, Q4	*101*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:33*	*03/25/16 15:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2, Q4	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:33*	*03/25/16 15:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2, Q4	*96*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:33*	*03/25/16 15:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2, Q4	*99*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:33*	*03/25/16 15:33*	*EPA 8260B*
Surrogate: Toluene-d8	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0568*	*03/25/16 15:33*	*03/25/16 15:33*	*EPA 8260B*
cis-1,2-Dichloroethene	D1, Q2, Q4	**2000**	100	ug/L	1	B6C0568	03/25/16 15:33	03/25/16 15:33	EPA 8260B
Tetrachloroethene	D1, Q2, Q4	**3300**	100	ug/L	1	B6C0568	03/25/16 15:33	03/25/16 15:33	EPA 8260B
Trichloroethene (TCE)	D1, Q2, Q4	**2900**	100	ug/L	1	B6C0568	03/25/16 15:33	03/25/16 15:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-22RE2

Location ID: B39-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 14:47*	*03/25/16 14:47*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 14:47*	*03/25/16 14:47*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 14:47*	*03/25/16 14:47*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 14:47*	*03/25/16 14:47*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 14:47*	*03/25/16 14:47*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-22RE2

Location ID: B39-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-22RE2

Location ID: B39-W-(57-61)	Collect Date: 03/18/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 9:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 14:47	03/25/16 14:47	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-23RE1

Location ID: B39-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 15:55*	*03/25/16 15:55*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 15:55*	*03/25/16 15:55*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 15:55*	*03/25/16 15:55*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 15:55*	*03/25/16 15:55*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 15:55*	*03/25/16 15:55*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-23RE1

Location ID: B39-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-23RE1

Location ID: B39-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 15:55	03/25/16 15:55	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-24RE1

Location ID: B39-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:18*	*03/25/16 16:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:18*	*03/25/16 16:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:18*	*03/25/16 16:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:18*	*03/25/16 16:18*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:18*	*03/25/16 16:18*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-24RE1

Location ID: B39-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-24RE1

Location ID: B39-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 9:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:18	03/25/16 16:18	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-25RE1

Location ID: B38-W-(56-60)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:40*	*03/25/16 16:40*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:40*	*03/25/16 16:40*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:40*	*03/25/16 16:40*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:40*	*03/25/16 16:40*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 16:40*	*03/25/16 16:40*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-25RE1

Location ID: B38-W-(56-60)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-25RE1

Location ID: B38-W-(56-60)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 10:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 16:40	03/25/16 16:40	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-26RE1

Location ID: B38-W-(45-49)	Collect Date: 03/18/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:15	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:03*	*03/25/16 17:03*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:03*	*03/25/16 17:03*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*95*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:03*	*03/25/16 17:03*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*97*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:03*	*03/25/16 17:03*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*96*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:03*	*03/25/16 17:03*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-26RE1

Location ID: B38-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 10:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Chloromethane	Q4, D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B

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Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-26RE1

Location ID: B38-W-(45-49)	Collect Date: 03/18/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:15	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Tetrachloroethene	Q4, D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B
Vinyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:03	03/25/16 17:03	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-27RE1

Location ID: B37-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 17:26*	*03/25/16 17:26*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 17:26*	*03/25/16 17:26*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 17:26*	*03/25/16 17:26*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 17:26*	*03/25/16 17:26*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0568*	*03/25/16 17:26*	*03/25/16 17:26*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-27RE1

Location ID: B37-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
cis-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-27RE1

Location ID: B37-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6C0568	03/25/16 17:26	03/25/16 17:26	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-28

Location ID: ERB-1
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/18/16
Collect Time: 11:10
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 11:48*	*03/24/16 11:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 11:48*	*03/24/16 11:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 11:48*	*03/24/16 11:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 11:48*	*03/24/16 11:48*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 11:48*	*03/24/16 11:48*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-28

Location ID: ERB-1
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/18/16
Collect Time: 11:10
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Acetone		<	20	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-28

Location ID: ERB-1	Collect Date: 03/18/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:10	Field Fluoride Result: None
Sampling Point: None	Matrix: QC-BLANK	Field pH Result: None
QA Type: Field Blank		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0525	03/24/16 11:48	03/24/16 11:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-29RE1

Location ID: B37-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:48*	*03/25/16 17:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:48*	*03/25/16 17:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*95*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:48*	*03/25/16 17:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:48*	*03/25/16 17:48*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*97*	*70-130*	%	*1*	*B6C0568*	*03/25/16 17:48*	*03/25/16 17:48*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-29RE1

Location ID: B37-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B

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Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-29RE1

Location ID: B37-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/18/16
Collect Time: 11:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B
Vinyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 17:48	03/25/16 17:48	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-30

Location ID: TripBlank4
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/16/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:11*	*03/24/16 12:11*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:11*	*03/24/16 12:11*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:11*	*03/24/16 12:11*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:11*	*03/24/16 12:11*	*EPA 8260B*
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*1*	*B6C0525*	*03/24/16 12:11*	*03/24/16 12:11*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-30

Location ID: TripBlank4	Collect Date: 03/16/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 7:00	Field Fluoride Result: None
Sampling Point: None	Matrix: QC-BLANK	Field pH Result: None
QA Type: Trip Blank		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Acetone		<	20	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-30

Location ID: TripBlank4
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/16/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0525	03/24/16 12:11	03/24/16 12:11	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-31RE1

Location ID: B25-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Sample point added per collector. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q2, Q4	*100*	*70-130*	%	*1*	*B6C0568*	*03/25/16 18:11*	*03/25/16 18:11*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q2, Q4	*102*	*70-130*	%	*1*	*B6C0568*	*03/25/16 18:11*	*03/25/16 18:11*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q2, Q4	*95*	*70-130*	%	*1*	*B6C0568*	*03/25/16 18:11*	*03/25/16 18:11*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0568*	*03/25/16 18:11*	*03/25/16 18:11*	*EPA 8260B*
Surrogate: Toluene-d8	Q2, Q4	*97*	*70-130*	%	*1*	*B6C0568*	*03/25/16 18:11*	*03/25/16 18:11*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1,1-Trichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1,2-Trichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1-Dichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1-Dichloroethene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,1-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2,3-Trichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2, Q4	<	25	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2-Dichlorobenzene	Q4, D1, Q2	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2-Dichloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,2-Dichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,3-Dichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,3-Dichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
1,4-Dichlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-31RE1

Location ID: B25-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Sample point added per collector. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
2-Chlorotoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
4-Chlorotoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Acetone	D1, Q2, Q4	<	100	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Allyl chloride	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Benzene	Q4, D1, Q2	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Bromobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Bromochloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Bromodichloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Bromoform	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Bromomethane	D1, Q2, Q4	<	10	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Carbon tetrachloride	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Chlorobenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Chlorodibromomethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Chloroethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Chloroform	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Chloromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2, Q4	**42**	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Dibromomethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Dichlorodifluoromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Dichlorofluoromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Ethyl ether	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Ethylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Hexachlorobutadiene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Isopropylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2, Q4	<	50	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Ben Klaus
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 04/05/16 13:03

MDH Sample Number: 16C0973-31RE1

Location ID: B25-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/16/16
Collect Time: 16:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: Sample point added per collector. EES

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2, Q4	<	25	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2, Q4	<	10	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Methylene chloride	D1, Q2, Q4	<	10	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Naphthalene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
n-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
n-Propylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
o-Xylene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
p&m-Xylene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
p-Isopropyltoluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
sec-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Styrene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
tert-Butylbenzene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Tetrachloroethene	D1, Q2, Q4	**22**	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2, Q4	<	50	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Toluene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Trichloroethene (TCE)	D1, Q2, Q4	**24**	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Trichlorofluoromethane	D1, Q2, Q4	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B
Vinyl chloride	Q2, Q4, D1	<	5.0	ug/L	1	B6C0568	03/25/16 18:11	03/25/16 18:11	EPA 8260B

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Batch Summary

Samples in Batch: B6C0490 - EPA 5030B Preparation

16C0973-01RE1	16C0973-02	16C0973-03	16C0973-04	16C0973-05	16C0973-06	16C0973-07
16C0973-08	16C0973-09	16C0973-10	16C0973-11	16C0973-12	16C0973-13	16C0973-14
16C0973-15	16C0973-16	16C0973-17	16C0973-18			

Samples in Batch: B6C0525 - EPA 5030B Preparation

16C0973-02RE1	16C0973-03RE1	16C0973-07RE1	16C0973-08RE1	16C0973-09RE1	16C0973-18RE1	16C0973-19
16C0973-20	16C0973-21	16C0973-28	16C0973-30			

Samples in Batch: B6C0568 - EPA 5030B Preparation

16C0973-20RE1	16C0973-21RE1	16C0973-22RE2	16C0973-23RE1	16C0973-24RE1	16C0973-25RE1	16C0973-26RE1
16C0973-27RE1	16C0973-29RE1	16C0973-31RE1				

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Blank (B6C0490-BLK1) **Prepared: 03/23/16 11:12 Analyzed: 03/23/16 11:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Blank (B6C0490-BLK1) **Prepared: 03/23/16 11:12 Analyzed: 03/23/16 11:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Blank (B6C0490-BLK1) **Prepared: 03/23/16 11:12 Analyzed: 03/23/16 11:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0490-BS1) **Prepared: 03/23/16 10:05 Analyzed: 03/23/16 10:05**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.3	1.0	ug/L	10		93	70-130		
1,1,1-Trichloroethane		9.7	1.0	ug/L	10		97	70-130		
1,1,2,2-Tetrachloroethane		8.6	1.0	ug/L	10		86	70-130		
1,1,2-Trichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		104	70-130		
1,1-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1-Dichloroethene		9.9	1.0	ug/L	10		99	70-130		
1,1-Dichloropropene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2,3-Trichloropropane		8.8	1.0	ug/L	10		88	70-130		
1,2,4-Trichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2,4-Trimethylbenzene		9.1	1.0	ug/L	10		91	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		8.1	5.0	ug/L	10		81	70-130		
1,2-Dibromoethane (EDB)		9.5	1.0	ug/L	10		95	70-130		
1,2-Dichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2-Dichloroethane		9.2	1.0	ug/L	10		92	70-130		
1,2-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
1,3,5-Trimethylbenzene		9.1	1.0	ug/L	10		91	70-130		
1,3-Dichlorobenzene		9.5	1.0	ug/L	10		95	70-130		
1,3-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
1,4-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
2,2-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
2-Chlorotoluene		9.1	1.0	ug/L	10		91	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

LCS (B6C0490-BS1) **Prepared: 03/23/16 10:05 Analyzed: 03/23/16 10:05**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		9.2	1.0	ug/L	10		92	70-130		
Acetone		90	20	ug/L	100		90	70-130		
Allyl chloride		9.4	1.0	ug/L	10		94	70-130		
Benzene		9.6	1.0	ug/L	10		96	70-130		
Bromobenzene		9.6	1.0	ug/L	10		96	70-130		
Bromochloromethane		10	1.0	ug/L	10		101	70-130		
Bromodichloromethane		9.1	1.0	ug/L	10		91	70-130		
Bromoform		8.7	1.0	ug/L	10		87	70-130		
Bromomethane		8.6	2.0	ug/L	10		86	70-130		
Carbon tetrachloride		9.3	1.0	ug/L	10		93	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		9.0	1.0	ug/L	10		90	70-130		
Chloroethane		8.7	1.0	ug/L	10		87	70-130		
Chloroform		9.5	1.0	ug/L	10		95	70-130		
Chloromethane		9.2	1.0	ug/L	10		92	70-130		
cis-1,2-Dichloroethene		9.9	1.0	ug/L	10		99	70-130		
cis-1,3-Dichloropropene		8.8	1.0	ug/L	10		88	70-130		
Dibromomethane		9.5	1.0	ug/L	10		95	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		101	70-130		
Dichlorofluoromethane		9.2	1.0	ug/L	10		92	70-130		
Ethyl ether		9.5	1.0	ug/L	10		95	70-130		
Ethylbenzene		9.5	1.0	ug/L	10		95	70-130		
Hexachlorobutadiene		9.6	1.0	ug/L	10		96	70-130		
Isopropylbenzene		9.2	1.0	ug/L	10		92	70-130		
Methyl ethyl ketone (MEK)		43	10	ug/L	50		87	70-130		
Methyl isobutyl ketone (MIBK)		42	5.0	ug/L	50		83	70-130		
Methyl tertiary butyl ether (MTBE)		9.3	2.0	ug/L	10		93	70-130		
Methylene chloride		9.7	2.0	ug/L	10		97	70-130		
Naphthalene		9.2	1.0	ug/L	10		92	70-130		
n-Butylbenzene		9.0	1.0	ug/L	10		90	70-130		
n-Propylbenzene		9.3	1.0	ug/L	10		93	70-130		
o-Xylene		9.5	1.0	ug/L	10		95	70-130		
p&m-Xylene		9.4	1.0	ug/L	10		94	70-130		
p-Isopropyltoluene		9.5	1.0	ug/L	10		95	70-130		
sec-Butylbenzene		9.4	1.0	ug/L	10		94	70-130		

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

LCS (B6C0490-BS1) **Prepared: 03/23/16 10:05 Analyzed: 03/23/16 10:05**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.4	1.0	ug/L	10		94	70-130		
tert-Butylbenzene		9.3	1.0	ug/L	10		93	70-130		
Tetrachloroethene		9.9	1.0	ug/L	10		99	70-130		
Tetrahydrofuran (THF)		85	10	ug/L	100		85	70-130		
Toluene		9.4	1.0	ug/L	10		94	70-130		
trans-1,2-Dichloroethene		9.7	1.0	ug/L	10		97	70-130		
trans-1,3-Dichloropropene		8.9	1.0	ug/L	10		89	70-130		
Trichloroethene (TCE)		9.7	1.0	ug/L	10		97	70-130		
Trichlorofluoromethane		9.4	1.0	ug/L	10		94	70-130		
Vinyl chloride		9.1	1.0	ug/L	10		91	70-130		

Duplicate (B6C0490-DUP1) Source: 16C0973-01RE1 **Prepared: 03/23/16 13:13 Analyzed: 03/23/16 13:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L		<				30
1,1,1-Trichloroethane	D1	<	100	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L		<				30
1,1,2-Trichloroethane	D1	<	100	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L		<				30
1,1-Dichloroethane	D1	<	100	ug/L		<				30
1,1-Dichloroethene	D1	<	100	ug/L		<				30
1,1-Dichloropropene	D1	<	100	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	100	ug/L		<				30
1,2,3-Trichloropropane	D1	<	100	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	100	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	100	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	100	ug/L		<				30
1,2-Dichlorobenzene	D1	<	100	ug/L		<				30
1,2-Dichloroethane	D1	<	100	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Duplicate (B6C0490-DUP1) Source: 16C0973-01RE1 **Prepared: 03/23/16 13:13 Analyzed: 03/23/16 13:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1	<	100	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	100	ug/L		<				30
1,3-Dichlorobenzene	D1	<	100	ug/L		<				30
1,3-Dichloropropane	D1	<	100	ug/L		<				30
1,4-Dichlorobenzene	D1	<	100	ug/L		<				30
2,2-Dichloropropane	D1	<	100	ug/L		<				30
2-Chlorotoluene	D1	<	100	ug/L		<				30
4-Chlorotoluene	D1	<	100	ug/L		<				30
Acetone	D1	<	2000	ug/L		<				30
Allyl chloride	D1	<	100	ug/L		<				30
Benzene	D1	33	100	ug/L		<			0	30
Bromobenzene	D1	<	100	ug/L		<				30
Bromochloromethane	D1	<	100	ug/L		<				30
Bromodichloromethane	D1	<	100	ug/L		<				30
Bromoform	D1	<	100	ug/L		<				30
Bromomethane	D1	<	200	ug/L		<				30
Carbon tetrachloride	D1	<	100	ug/L		<				30
Chlorobenzene	D1	<	100	ug/L		<				30
Chlorodibromomethane	D1	<	100	ug/L		<				30
Chloroethane	D1	<	100	ug/L		<				30
Chloroform	D1	<	100	ug/L		<				30
Chloromethane	D1	<	100	ug/L		<				30
cis-1,2-Dichloroethene	D1	3500	100	ug/L		3400			3	30
cis-1,3-Dichloropropene	D1	<	100	ug/L		<				30
Dibromomethane	D1	<	100	ug/L		<				30
Dichlorodifluoromethane	D1	<	100	ug/L		<				30
Dichlorofluoromethane	D1	<	100	ug/L		<				30
Ethyl ether	D1	<	100	ug/L		<				30
Ethylbenzene	D1	<	100	ug/L		<				30
Hexachlorobutadiene	D1	<	100	ug/L		<				30
Isopropylbenzene	D1	<	100	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L		<				30
Methylene chloride	D1	<	200	ug/L		<				30

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Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

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Batch B6C0490 - EPA 5030B Preparation

Duplicate (B6C0490-DUP1) Source: 16C0973-01RE1 **Prepared: 03/23/16 13:13 Analyzed: 03/23/16 13:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1	<	100	ug/L		<				30
n-Butylbenzene	D1	<	100	ug/L		<				30
n-Propylbenzene	D1	<	100	ug/L		<				30
o-Xylene	D1	<	100	ug/L		<				30
p&m-Xylene	D1	<	100	ug/L		<				30
p-Isopropyltoluene	D1	<	100	ug/L		<				30
sec-Butylbenzene	D1	<	100	ug/L		<				30
Styrene	D1	<	100	ug/L		<				30
tert-Butylbenzene	D1	<	100	ug/L		<				30
Tetrachloroethene	D1	<	100	ug/L		<				30
Tetrahydrofuran (THF)	D1	<	1000	ug/L		<				30
Toluene	D1	<	100	ug/L		<				30
trans-1,2-Dichloroethene	D1	140	100	ug/L		140			2	30
trans-1,3-Dichloropropene	D1	<	100	ug/L		<				30
Trichloroethene (TCE)	D1	<	100	ug/L		<				30
Trichlorofluoromethane	D1	<	100	ug/L		<				30
Vinyl chloride	D1	210	100	ug/L		200			4	30

Matrix Spike (B6C0490-MS1) Source: 16C0973-06 **Prepared: 03/23/16 10:27 Analyzed: 03/23/16 10:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene	Q4	*95*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8	Q4	*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1, Q4	260	25	ug/L	250	<	104	70-130		
1,1,1-Trichloroethane	D1, Q4	280	25	ug/L	250	<	114	70-130		
1,1,2,2-Tetrachloroethane	D1, Q4	230	25	ug/L	250	<	94	70-130		
1,1,2-Trichloroethane	D1, Q4	240	25	ug/L	250	<	98	70-130		
1,1,2-Trichlorotrifluoroethane	M1, Q4, D1	330	25	ug/L	250	<	131	70-130		
1,1-Dichloroethane	D1, Q4	270	25	ug/L	250	<	107	70-130		
1,1-Dichloroethene	D1, Q4	310	25	ug/L	250	<	121	70-130		
1,1-Dichloropropene	D1, Q4	290	25	ug/L	250	<	114	70-130		
1,2,3-Trichlorobenzene	D1, Q4	270	25	ug/L	250	<	107	70-130		
1,2,3-Trichloropropane	D1, Q4	240	25	ug/L	250	<	96	70-130		

FINAL REPORT

Report ID: 04052016130349

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Matrix Spike (B6C0490-MS1) Source: 16C0973-06 **Prepared: 03/23/16 10:27 Analyzed: 03/23/16 10:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	D1, Q4	260	25	ug/L	250	<	106	70-130		
1,2,4-Trimethylbenzene	D1, Q4	250	25	ug/L	250	<	102	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	220	120	ug/L	250	<	86	70-130		
1,2-Dibromoethane (EDB)	D1, Q4	260	25	ug/L	250	<	103	70-130		
1,2-Dichlorobenzene	D1, Q4	260	25	ug/L	250	<	104	70-130		
1,2-Dichloroethane	D1, Q4	250	25	ug/L	250	<	102	70-130		
1,2-Dichloropropane	D1, Q4	260	25	ug/L	250	<	102	70-130		
1,3,5-Trimethylbenzene	D1, Q4	250	25	ug/L	250	<	102	70-130		
1,3-Dichlorobenzene	D1, Q4	270	25	ug/L	250	<	106	70-130		
1,3-Dichloropropane	D1, Q4	250	25	ug/L	250	<	100	70-130		
1,4-Dichlorobenzene	D1, Q4	270	25	ug/L	250	<	108	70-130		
2,2-Dichloropropane	D1, Q4	280	25	ug/L	250	<	113	70-130		
2-Chlorotoluene	Q4, D1	250	25	ug/L	250	<	102	70-130		
4-Chlorotoluene	D1, Q4	250	25	ug/L	250	<	102	70-130		
Acetone	D1, Q4	2500	500	ug/L	2,500	<	100	70-130		
Allyl chloride	D1, Q4	280	25	ug/L	250	<	111	70-130		
Benzene	D1, Q4	300	25	ug/L	250	28	110	70-130		
Bromobenzene	D1, Q4	270	25	ug/L	250	<	106	70-130		
Bromochloromethane	D1, Q4	290	25	ug/L	250	<	116	70-130		
Bromodichloromethane	D1, Q4	260	25	ug/L	250	<	102	70-130		
Bromoform	D1, Q4	230	25	ug/L	250	<	93	70-130		
Bromomethane	D1, Q4	290	50	ug/L	250	<	116	70-130		
Carbon tetrachloride	Q4, D1	280	25	ug/L	250	<	111	70-130		
Chlorobenzene	D1, Q4	280	25	ug/L	250	<	111	70-130		
Chlorodibromomethane	D1, Q4	250	25	ug/L	250	<	99	70-130		
Chloroethane	D1, Q4	270	25	ug/L	250	<	107	70-130		
Chloroform	D1, Q4	270	25	ug/L	250	<	108	70-130		
Chloromethane	D1, Q4	280	25	ug/L	250	<	112	70-130		
cis-1,2-Dichloroethene	D1, E3, M1, Q4	3400	25	ug/L	250	2900	172	70-130		
cis-1,3-Dichloropropene	D1, Q4	250	25	ug/L	250	<	98	70-130		
Dibromomethane	D1, Q4	270	25	ug/L	250	<	106	70-130		
Dichlorodifluoromethane	D1, Q4	320	25	ug/L	250	<	128	70-130		
Dichlorofluoromethane	D1, Q4	270	25	ug/L	250	<	109	70-130		
Ethyl ether	Q4, D1	270	25	ug/L	250	<	109	70-130		
Ethylbenzene	D1, Q4	270	25	ug/L	250	<	109	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0490 - EPA 5030B Preparation

Matrix Spike (B6C0490-MS1) Source: 16C0973-06 **Prepared: 03/23/16 10:27 Analyzed: 03/23/16 10:27**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobutadiene	D1, Q4	280	25	ug/L	250	<	112	70-130		
Isopropylbenzene	D1, Q4	260	25	ug/L	250	<	106	70-130		
Methyl ethyl ketone (MEK)	D1, Q4	1200	250	ug/L	1,250	<	97	70-130		
Methyl isobutyl ketone (MIBK)	D1, Q4	1100	120	ug/L	1,250	<	91	70-130		
Methyl tertiary butyl ether (MTBE)	D1, Q4	260	50	ug/L	250	<	104	70-130		
Methylene chloride	D1, Q4	270	50	ug/L	250	<	109	70-130		
Naphthalene	D1, Q4	250	25	ug/L	250	<	101	70-130		
n-Butylbenzene	D1, Q4	260	25	ug/L	250	<	103	70-130		
n-Propylbenzene	D1, Q4	270	25	ug/L	250	<	106	70-130		
o-Xylene	D1, Q4	270	25	ug/L	250	<	107	70-130		
p&m-Xylene	D1, Q4	270	25	ug/L	250	<	108	70-130		
p-Isopropyltoluene	D1, Q4	270	25	ug/L	250	<	107	70-130		
sec-Butylbenzene	D1, Q4	270	25	ug/L	250	<	110	70-130		
Styrene	D1, Q4	260	25	ug/L	250	<	103	70-130		
tert-Butylbenzene	D1, Q4	270	25	ug/L	250	<	108	70-130		
Tetrachloroethene	D1, Q4	290	25	ug/L	250	<	116	70-130		
Tetrahydrofuran (THF)	D1, Q4	2400	250	ug/L	2,500	<	95	70-130		
Toluene	D1, Q4	270	25	ug/L	250	<	110	70-130		
trans-1,2-Dichloroethene	D1, Q4	370	25	ug/L	250	63	121	70-130		
trans-1,3-Dichloropropene	D1, Q4	250	25	ug/L	250	<	99	70-130		
Trichloroethene (TCE)	D1, Q4	280	25	ug/L	250	<	114	70-130		
Trichlorofluoromethane	D1, Q4	300	25	ug/L	250	<	120	70-130		
Vinyl chloride	D1, Q4	510	25	ug/L	250	210	118	70-130		

Batch B6C0525 - EPA 5030B Preparation

Blank (B6C0525-BLK1) **Prepared: 03/24/16 11:25 Analyzed: 03/24/16 11:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

Blank (B6C0525-BLK1) **Prepared: 03/24/16 11:25 Analyzed: 03/24/16 11:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

Blank (B6C0525-BLK1) **Prepared: 03/24/16 11:25 Analyzed: 03/24/16 11:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

LCS (B6C0525-BS1) **Prepared: 03/24/16 10:16 Analyzed: 03/24/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1,1-Trichloroethane		9.5	1.0	ug/L	10		95	70-130		
1,1,2,2-Tetrachloroethane		8.4	1.0	ug/L	10		84	70-130		
1,1,2-Trichloroethane		8.6	1.0	ug/L	10		86	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		107	70-130		
1,1-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		101	70-130		
1,1-Dichloropropene		9.5	1.0	ug/L	10		95	70-130		
1,2,3-Trichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2,3-Trichloropropane		8.6	1.0	ug/L	10		86	70-130		
1,2,4-Trichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2,4-Trimethylbenzene		8.9	1.0	ug/L	10		89	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		7.9	5.0	ug/L	10		79	70-130		
1,2-Dibromoethane (EDB)		9.2	1.0	ug/L	10		92	70-130		
1,2-Dichlorobenzene		9.2	1.0	ug/L	10		92	70-130		
1,2-Dichloroethane		9.0	1.0	ug/L	10		90	70-130		
1,2-Dichloropropane		9.1	1.0	ug/L	10		91	70-130		
1,3,5-Trimethylbenzene		8.9	1.0	ug/L	10		89	70-130		
1,3-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,3-Dichloropropane		9.0	1.0	ug/L	10		90	70-130		
1,4-Dichlorobenzene		9.5	1.0	ug/L	10		95	70-130		
2,2-Dichloropropane		9.3	1.0	ug/L	10		93	70-130		
2-Chlorotoluene		8.9	1.0	ug/L	10		89	70-130		
4-Chlorotoluene		8.8	1.0	ug/L	10		88	70-130		
Acetone		88	20	ug/L	100		88	70-130		
Allyl chloride		9.4	1.0	ug/L	10		94	70-130		
Benzene		9.4	1.0	ug/L	10		94	70-130		
Bromobenzene		9.3	1.0	ug/L	10		93	70-130		
Bromochloromethane		10	1.0	ug/L	10		103	70-130		
Bromodichloromethane		9.0	1.0	ug/L	10		90	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

LCS (B6C0525-BS1) **Prepared: 03/24/16 10:16 Analyzed: 03/24/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		8.3	1.0	ug/L	10		83	70-130		
Bromomethane		8.9	2.0	ug/L	10		89	70-130		
Carbon tetrachloride		9.4	1.0	ug/L	10		94	70-130		
Chlorobenzene		9.6	1.0	ug/L	10		96	70-130		
Chlorodibromomethane		8.6	1.0	ug/L	10		86	70-130		
Chloroethane		9.0	1.0	ug/L	10		90	70-130		
Chloroform		9.4	1.0	ug/L	10		94	70-130		
Chloromethane		9.2	1.0	ug/L	10		92	70-130		
cis-1,2-Dichloroethene		9.6	1.0	ug/L	10		96	70-130		
cis-1,3-Dichloropropene		8.7	1.0	ug/L	10		87	70-130		
Dibromomethane		9.6	1.0	ug/L	10		96	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		104	70-130		
Dichlorofluoromethane		9.1	1.0	ug/L	10		91	70-130		
Ethyl ether		9.1	1.0	ug/L	10		91	70-130		
Ethylbenzene		9.3	1.0	ug/L	10		93	70-130		
Hexachlorobutadiene		9.3	1.0	ug/L	10		93	70-130		
Isopropylbenzene		9.1	1.0	ug/L	10		91	70-130		
Methyl ethyl ketone (MEK)		43	10	ug/L	50		87	70-130		
Methyl isobutyl ketone (MIBK)		41	5.0	ug/L	50		82	70-130		
Methyl tertiary butyl ether (MTBE)		9.2	2.0	ug/L	10		92	70-130		
Methylene chloride		9.5	2.0	ug/L	10		95	70-130		
Naphthalene		9.0	1.0	ug/L	10		90	70-130		
n-Butylbenzene		8.8	1.0	ug/L	10		88	70-130		
n-Propylbenzene		9.1	1.0	ug/L	10		91	70-130		
o-Xylene		9.2	1.0	ug/L	10		92	70-130		
p&m-Xylene		9.2	1.0	ug/L	10		92	70-130		
p-Isopropyltoluene		9.2	1.0	ug/L	10		92	70-130		
sec-Butylbenzene		9.3	1.0	ug/L	10		93	70-130		
Styrene		9.1	1.0	ug/L	10		91	70-130		
tert-Butylbenzene		9.0	1.0	ug/L	10		90	70-130		
Tetrachloroethene		9.8	1.0	ug/L	10		98	70-130		
Tetrahydrofuran (THF)		85	10	ug/L	100		85	70-130		
Toluene		9.4	1.0	ug/L	10		94	70-130		
trans-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
trans-1,3-Dichloropropene		8.6	1.0	ug/L	10		86	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

LCS (B6C0525-BS1) **Prepared: 03/24/16 10:16 Analyzed: 03/24/16 10:16**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		9.7	1.0	ug/L	10		97	70-130		
Trichlorofluoromethane		9.6	1.0	ug/L	10		96	70-130		
Vinyl chloride		9.1	1.0	ug/L	10		91	70-130		

Duplicate (B6C0525-DUP1) Source: 16C0973-19 **Prepared: 03/24/16 13:41 Analyzed: 03/24/16 13:41**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L		<				30
1,1,1-Trichloroethane	D1	<	25	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L		<				30
1,1,2-Trichloroethane	D1	<	25	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L		<				30
1,1-Dichloroethane	D1	<	25	ug/L		<				30
1,1-Dichloroethene	D1	<	25	ug/L		<				30
1,1-Dichloropropene	D1	<	25	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	25	ug/L		<				30
1,2,3-Trichloropropane	D1	<	25	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	25	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	25	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	25	ug/L		<				30
1,2-Dichlorobenzene	D1	<	25	ug/L		<				30
1,2-Dichloroethane	D1	<	25	ug/L		<				30
1,2-Dichloropropane	D1	<	25	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	25	ug/L		<				30
1,3-Dichlorobenzene	D1	<	25	ug/L		<				30
1,3-Dichloropropane	D1	<	25	ug/L		<				30
1,4-Dichlorobenzene	D1	<	25	ug/L		<				30
2,2-Dichloropropane	D1	<	25	ug/L		<				30
2-Chlorotoluene	D1	<	25	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

Duplicate (B6C0525-DUP1) Source: 16C0973-19 **Prepared: 03/24/16 13:41 Analyzed: 03/24/16 13:41**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene	D1	<	25	ug/L		<				30
Acetone	D1	<	500	ug/L		<				30
Allyl chloride	D1	<	25	ug/L		<				30
Benzene	D1	<	25	ug/L		<				30
Bromobenzene	D1	<	25	ug/L		<				30
Bromochloromethane	D1	<	25	ug/L		<				30
Bromodichloromethane	D1	<	25	ug/L		<				30
Bromoform	D1	<	25	ug/L		<				30
Bromomethane	D1	<	50	ug/L		<				30
Carbon tetrachloride	D1	<	25	ug/L		<				30
Chlorobenzene	D1	<	25	ug/L		<				30
Chlorodibromomethane	D1	<	25	ug/L		<				30
Chloroethane	D1	<	25	ug/L		<				30
Chloroform	D1	<	25	ug/L		<				30
Chloromethane	D1	<	25	ug/L		<				30
cis-1,2-Dichloroethene	D1	99	25	ug/L		97			2	30
cis-1,3-Dichloropropene	D1	<	25	ug/L		<				30
Dibromomethane	D1	<	25	ug/L		<				30
Dichlorodifluoromethane	D1	<	25	ug/L		<				30
Dichlorofluoromethane	D1	<	25	ug/L		<				30
Ethyl ether	D1	<	25	ug/L		<				30
Ethylbenzene	D1	<	25	ug/L		<				30
Hexachlorobutadiene	D1	<	25	ug/L		<				30
Isopropylbenzene	D1	<	25	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	25	250	ug/L		<			2	30
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L		<				30
Methylene chloride	D1	<	50	ug/L		<				30
Naphthalene	D1	<	25	ug/L		<				30
n-Butylbenzene	D1	<	25	ug/L		<				30
n-Propylbenzene	D1	<	25	ug/L		<				30
o-Xylene	D1	<	25	ug/L		<				30
p&m-Xylene	D1	<	25	ug/L		<				30
p-Isopropyltoluene	D1	<	25	ug/L		<				30
sec-Butylbenzene	D1	<	25	ug/L		<				30

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Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0525 - EPA 5030B Preparation

Duplicate (B6C0525-DUP1) Source: 16C0973-19 **Prepared: 03/24/16 13:41 Analyzed: 03/24/16 13:41**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene	D1	<	25	ug/L		<				30
tert-Butylbenzene	D1	<	25	ug/L		<				30
Tetrachloroethene	D1	110	25	ug/L		110			0.5	30
Tetrahydrofuran (THF)	D1	<	250	ug/L		<				30
Toluene	D1	<	25	ug/L		<				30
trans-1,2-Dichloroethene	D1	<	25	ug/L		<				30
trans-1,3-Dichloropropene	D1	<	25	ug/L		<				30
Trichloroethene (TCE)	D1	93	25	ug/L		94			0.8	30
Trichlorofluoromethane	D1	<	25	ug/L		<				30
Vinyl chloride	D1	14	25	ug/L		<			2	30

Batch B6C0568 - EPA 5030B Preparation

Blank (B6C0568-BLK1) **Prepared: 03/25/16 14:25 Analyzed: 03/25/16 14:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

Blank (B6C0568-BLK1) **Prepared: 03/25/16 14:25 Analyzed: 03/25/16 14:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

Blank (B6C0568-BLK1) **Prepared: 03/25/16 14:25 Analyzed: 03/25/16 14:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0568-BS1) **Prepared: 03/25/16 13:17 Analyzed: 03/25/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*98*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,1-Trichloroethane		9.5	1.0	ug/L	10		95	70-130		
1,1,2,2-Tetrachloroethane		8.2	1.0	ug/L	10		82	70-130		
1,1,2-Trichloroethane		8.4	1.0	ug/L	10		84	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		106	70-130		
1,1-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		100	70-130		
1,1-Dichloropropene		9.3	1.0	ug/L	10		93	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

LCS (B6C0568-BS1) **Prepared: 03/25/16 13:17 Analyzed: 03/25/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichloropropane		8.5	1.0	ug/L	10		85	70-130		
1,2,4-Trichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2,4-Trimethylbenzene		8.9	1.0	ug/L	10		89	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		7.4	5.0	ug/L	10		74	70-130		
1,2-Dibromoethane (EDB)		9.1	1.0	ug/L	10		91	70-130		
1,2-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,2-Dichloropropane		9.0	1.0	ug/L	10		90	70-130		
1,3,5-Trimethylbenzene		8.8	1.0	ug/L	10		88	70-130		
1,3-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,3-Dichloropropane		9.0	1.0	ug/L	10		90	70-130		
1,4-Dichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
2,2-Dichloropropane		9.2	1.0	ug/L	10		92	70-130		
2-Chlorotoluene		8.8	1.0	ug/L	10		88	70-130		
4-Chlorotoluene		8.8	1.0	ug/L	10		88	70-130		
Acetone		87	20	ug/L	100		87	70-130		
Allyl chloride		9.1	1.0	ug/L	10		91	70-130		
Benzene		9.5	1.0	ug/L	10		95	70-130		
Bromobenzene		9.4	1.0	ug/L	10		94	70-130		
Bromochloromethane		10	1.0	ug/L	10		100	70-130		
Bromodichloromethane		9.0	1.0	ug/L	10		90	70-130		
Bromoform		8.0	1.0	ug/L	10		80	70-130		
Bromomethane		9.5	2.0	ug/L	10		95	70-130		
Carbon tetrachloride		9.0	1.0	ug/L	10		90	70-130		
Chlorobenzene		9.6	1.0	ug/L	10		96	70-130		
Chlorodibromomethane		8.5	1.0	ug/L	10		85	70-130		
Chloroethane		8.7	1.0	ug/L	10		87	70-130		
Chloroform		9.4	1.0	ug/L	10		94	70-130		
Chloromethane		9.1	1.0	ug/L	10		91	70-130		
cis-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
cis-1,3-Dichloropropene		8.4	1.0	ug/L	10		84	70-130		
Dibromomethane		9.4	1.0	ug/L	10		94	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		101	70-130		
Dichlorofluoromethane		9.1	1.0	ug/L	10		91	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

LCS (B6C0568-BS1) **Prepared: 03/25/16 13:17 Analyzed: 03/25/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Ethyl ether		9.4	1.0	ug/L	10		94	70-130		
Ethylbenzene		9.3	1.0	ug/L	10		93	70-130		
Hexachlorobutadiene		9.2	1.0	ug/L	10		92	70-130		
Isopropylbenzene		9.0	1.0	ug/L	10		90	70-130		
Methyl ethyl ketone (MEK)		43	10	ug/L	50		85	70-130		
Methyl isobutyl ketone (MIBK)		40	5.0	ug/L	50		80	70-130		
Methyl tertiary butyl ether (MTBE)		9.2	2.0	ug/L	10		92	70-130		
Methylene chloride		9.6	2.0	ug/L	10		96	70-130		
Naphthalene		8.9	1.0	ug/L	10		89	70-130		
n-Butylbenzene		8.6	1.0	ug/L	10		86	70-130		
n-Propylbenzene		9.0	1.0	ug/L	10		90	70-130		
o-Xylene		9.2	1.0	ug/L	10		92	70-130		
p&m-Xylene		9.3	1.0	ug/L	10		93	70-130		
p-Isopropyltoluene		9.1	1.0	ug/L	10		91	70-130		
sec-Butylbenzene		9.1	1.0	ug/L	10		91	70-130		
Styrene		9.0	1.0	ug/L	10		90	70-130		
tert-Butylbenzene		9.0	1.0	ug/L	10		90	70-130		
Tetrachloroethene		9.8	1.0	ug/L	10		98	70-130		
Tetrahydrofuran (THF)		83	10	ug/L	100		83	70-130		
Toluene		9.3	1.0	ug/L	10		93	70-130		
trans-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
trans-1,3-Dichloropropene		8.4	1.0	ug/L	10		84	70-130		
Trichloroethene (TCE)		9.6	1.0	ug/L	10		96	70-130		
Trichlorofluoromethane		9.4	1.0	ug/L	10		94	70-130		
Vinyl chloride		9.0	1.0	ug/L	10		90	70-130		

Matrix Spike (B6C0568-MS1) Source: 16C0973-22RE2 **Prepared: 03/25/16 14:02 Analyzed: 03/25/16 14:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*97*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	51	5.0	ug/L	50	<	102	70-130		
1,1,1-Trichloroethane	D1	55	5.0	ug/L	50	<	110	70-130		

FINAL REPORT

Report ID: 04052016130349

Authorized by:

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

Matrix Spike (B6C0568-MS1) Source: 16C0973-22RE2 **Prepared: 03/25/16 14:02 Analyzed: 03/25/16 14:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	D1	45	5.0	ug/L	50	<	90	70-130		
1,1,2-Trichloroethane	D1	47	5.0	ug/L	50	<	94	70-130		
1,1,2-Trichlorotrifluoroethane	D1	64	5.0	ug/L	50	<	128	70-130		
1,1-Dichloroethane	D1	51	5.0	ug/L	50	<	103	70-130		
1,1-Dichloroethene	D1	60	5.0	ug/L	50	<	119	70-130		
1,1-Dichloropropene	D1	56	5.0	ug/L	50	<	111	70-130		
1,2,3-Trichlorobenzene	D1	50	5.0	ug/L	50	<	101	70-130		
1,2,3-Trichloropropane	D1	47	5.0	ug/L	50	<	93	70-130		
1,2,4-Trichlorobenzene	D1	51	5.0	ug/L	50	<	103	70-130		
1,2,4-Trimethylbenzene	D1	49	5.0	ug/L	50	<	98	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	40	25	ug/L	50	<	80	70-130		
1,2-Dibromoethane (EDB)	D1	49	5.0	ug/L	50	<	98	70-130		
1,2-Dichlorobenzene	D1	50	5.0	ug/L	50	<	101	70-130		
1,2-Dichloroethane	D1	48	5.0	ug/L	50	<	97	70-130		
1,2-Dichloropropane	D1	50	5.0	ug/L	50	<	99	70-130		
1,3,5-Trimethylbenzene	D1	50	5.0	ug/L	50	<	99	70-130		
1,3-Dichlorobenzene	D1	50	5.0	ug/L	50	<	101	70-130		
1,3-Dichloropropane	D1	50	5.0	ug/L	50	<	99	70-130		
1,4-Dichlorobenzene	D1	52	5.0	ug/L	50	<	103	70-130		
2,2-Dichloropropane	D1	53	5.0	ug/L	50	<	105	70-130		
2-Chlorotoluene	D1	50	5.0	ug/L	50	<	99	70-130		
4-Chlorotoluene	D1	49	5.0	ug/L	50	<	98	70-130		
Acetone	D1	460	100	ug/L	500	<	92	70-130		
Allyl chloride	D1	53	5.0	ug/L	50	<	106	70-130		
Benzene	D1	53	5.0	ug/L	50	<	107	70-130		
Bromobenzene	D1	52	5.0	ug/L	50	<	104	70-130		
Bromochloromethane	D1	57	5.0	ug/L	50	<	114	70-130		
Bromodichloromethane	D1	49	5.0	ug/L	50	<	97	70-130		
Bromoform	D1	44	5.0	ug/L	50	<	88	70-130		
Bromomethane	D1	53	10	ug/L	50	<	103	70-130		
Carbon tetrachloride	D1	53	5.0	ug/L	50	<	106	70-130		
Chlorobenzene	D1	54	5.0	ug/L	50	<	108	70-130		
Chlorodibromomethane	D1	47	5.0	ug/L	50	<	94	70-130		
Chloroethane	D1	51	5.0	ug/L	50	<	102	70-130		
Chloroform	D1	53	5.0	ug/L	50	<	106	70-130		

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Paul Moyer, Environmental Laboratory Manager
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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Ben Klaus	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 04/05/16 13:03

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0568 - EPA 5030B Preparation

Matrix Spike (B6C0568-MS1) Source: 16C0973-22RE2 **Prepared: 03/25/16 14:02 Analyzed: 03/25/16 14:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane	D1	55	5.0	ug/L	50	<	109	70-130		
cis-1,2-Dichloroethene	D1	55	5.0	ug/L	50	<	109	70-130		
cis-1,3-Dichloropropene	D1	46	5.0	ug/L	50	<	93	70-130		
Dibromomethane	D1	50	5.0	ug/L	50	<	100	70-130		
Dichlorodifluoromethane	D1	61	5.0	ug/L	50	<	122	70-130		
Dichlorofluoromethane	D1	53	5.0	ug/L	50	<	106	70-130		
Ethyl ether	D1	53	5.0	ug/L	50	<	105	70-130		
Ethylbenzene	D1	53	5.0	ug/L	50	<	106	70-130		
Hexachlorobutadiene	D1	53	5.0	ug/L	50	<	107	70-130		
Isopropylbenzene	D1	51	5.0	ug/L	50	<	103	70-130		
Methyl ethyl ketone (MEK)	D1	230	50	ug/L	250	<	89	70-130		
Methyl isobutyl ketone (MIBK)	D1	220	25	ug/L	250	<	86	70-130		
Methyl tertiary butyl ether (MTBE)	D1	50	10	ug/L	50	<	100	70-130		
Methylene chloride	D1	54	10	ug/L	50	<	107	70-130		
Naphthalene	D1	48	5.0	ug/L	50	<	95	70-130		
n-Butylbenzene	D1	49	5.0	ug/L	50	<	99	70-130		
n-Propylbenzene	D1	51	5.0	ug/L	50	<	103	70-130		
o-Xylene	D1	52	5.0	ug/L	50	<	104	70-130		
p&m-Xylene	D1	52	5.0	ug/L	50	<	104	70-130		
p-Isopropyltoluene	D1	52	5.0	ug/L	50	<	104	70-130		
sec-Butylbenzene	D1	53	5.0	ug/L	50	<	105	70-130		
Styrene	D1	50	5.0	ug/L	50	<	100	70-130		
tert-Butylbenzene	D1	51	5.0	ug/L	50	<	102	70-130		
Tetrachloroethene	D1	56	5.0	ug/L	50	<	112	70-130		
Tetrahydrofuran (THF)	D1	440	50	ug/L	500	<	89	70-130		
Toluene	D1	53	5.0	ug/L	50	<	106	70-130		
trans-1,2-Dichloroethene	D1	56	5.0	ug/L	50	<	113	70-130		
trans-1,3-Dichloropropene	D1	46	5.0	ug/L	50	<	92	70-130		
Trichloroethene (TCE)	D1	55	5.0	ug/L	50	<	110	70-130		
Trichlorofluoromethane	D1	57	5.0	ug/L	50	<	114	70-130		
Vinyl chloride	D1	54	5.0	ug/L	50	<	107	70-130		

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Public Health Laboratory, Minnesota Department of Health

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651-201-5300

Final Report
Quality Control

Data Qualifiers and Definitions

Q4	Sample received and analyzed without chemical preservation.
Q2	Sample received with head space.
M1	Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 4/12/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16C1177

Report To: PL - MPCA - Metro MERLA-SF
Jennifer Jevnisek
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B43-W-(73-77)	16C1177-01	Wtr-Ground	03/22/16 13:46	03/24/16 9:44	4.2
B43-W-(68-72)	16C1177-02	Wtr-Ground	03/22/16 14:00	03/24/16 9:44	4.2
B43-W-(57-61)	16C1177-03	Wtr-Ground	03/22/16 14:15	03/24/16 9:44	4.2
B43-W-(53-57)	16C1177-04	Wtr-Ground	03/22/16 14:26	03/24/16 9:44	4.2
B43-W-(49-53)	16C1177-05	Wtr-Ground	03/22/16 14:40	03/24/16 9:44	4.2
B43-W-(45-49)	16C1177-06	Wtr-Ground	03/22/16 14:50	03/24/16 9:44	4.2
EB-2	16C1177-07	QC-BLANK	03/22/16 15:00	03/24/16 9:44	4.2
B27-W-(70-74)	16C1177-08	Wtr-Ground	03/23/16 12:55	03/24/16 9:44	4.2
B27-W-(65-69)	16C1177-09	Wtr-Ground	03/23/16 12:40	03/24/16 9:44	4.2
B27-W-(59-63)	16C1177-10	Wtr-Ground	03/23/16 12:55	03/24/16 9:44	4.2
B27-W-(55-59)	16C1177-11	Wtr-Ground	03/23/16 13:05	03/24/16 9:44	4.2
B27-W-(51-55)	16C1177-12	Wtr-Ground	03/23/16 13:18	03/24/16 9:44	4.2
B27-W-(42-46)	16C1177-13	Wtr-Ground	03/23/16 13:30	03/24/16 9:44	4.2
EB-3	16C1177-14	QC-BLANK	03/23/16 13:35	03/24/16 9:44	4.2
B42-W-(73-77)	16C1177-15	Wtr-Ground	03/23/16 15:03	03/24/16 9:44	4.2
B42-W-(69-73)	16C1177-16	Wtr-Ground	03/23/16 15:15	03/24/16 9:44	4.2
B42-W-(65-69)	16C1177-17	Wtr-Ground	03/23/16 15:25	03/24/16 9:44	4.2
B42-W-(58-62)	16C1177-18	Wtr-Ground	03/23/16 15:40	03/24/16 9:44	4.2
B42-W-(54-58)	16C1177-19	Wtr-Ground	03/23/16 15:43	03/24/16 9:44	4.2
B42-W-(45-49)	16C1177-20	Wtr-Ground	03/23/16 15:55	03/24/16 9:44	4.2
B42-W-(41-45)	16C1177-21	Wtr-Ground	03/23/16 16:03	03/24/16 9:44	4.2
EB-4	16C1177-22	QC-BLANK	03/23/16 16:10	03/24/16 9:44	4.2
B41-W-(76-80)	16C1177-23	Wtr-Ground	03/23/16 17:10	03/24/16 9:44	4.2
B41-W-(53-57)	16C1177-24	Wtr-Ground	03/23/16 17:23	03/24/16 9:44	4.2
B41-W-(48-52)	16C1177-25	Wtr-Ground	03/23/16 17:30	03/24/16 9:44	4.2
B41-W-(43-47)	16C1177-26	Wtr-Ground	03/23/16 17:45	03/24/16 9:44	4.2
Trip Blank-5	16C1177-27	QC-BLANK	03/22/16 7:00	03/24/16 9:44	4.2

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 | COC Type: Standard | Page: 1 of 3

Turnaround Time: Standard | COC ID:

16C1177

PROJECT/CLIENT INFO

Facility Code: SR377 | Program Code (MDH Lab Only): PL

Project Name: Saint Louis Park Investigation FY16 | Project Task Code: PRJ07955

Project Manager: Jennifer Jevnisek

Potential Hazard? N If yes, add information to Sampler Comments Section

LABORATORY

Lab Name: Minnesota Department of Health

Address: 601 Robert Street N.

St. Paul, MN 55155

Phone No: 651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV.	ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B43-W-(73-77)	Sample	3/22/16	1346			G	NW	WTR-GROUND			3		3	-01	1
B43-W-(68-72)	Sample	3/22/16	1400			G	NW	WTR-GROUND			3		3	-02	2
B43-W-(57-61)	Sample	3/22/16	1415			G	NW	WTR-GROUND			3		3	-03	3
B43-W-(53-57)	Sample	3/22/16	1426			G	NW	WTR-GROUND			3		3	-04	4
B43-W-(49-53)	Sample	3/22/16	1440			G	NW	WTR-GROUND			3		3	-05	5
B43-W-(45-49)	Sample	3/22/16	1450			G	NW	WTR-GROUND			3		3	-06	6
EB-2	QC-FB	3/22/16	1500			G	NW	QC BLANK			3		3	-07	7
B27-W-(70-74)	Sample	3/23/16	1255			G	NW	WTR-GROUND			3		3	-08	8
B27-W-(65-69)	Sample	3/23/16	1240			G	NW	WTR-GROUND			3		3	-09	9
B27-W-(59-63)	Sample	3/23/16	1255			G	NW	WTR-GROUND			3		3	-10	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/24/16 / 944	[signature] / MDH	3/24/16 9:44

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013/09/09

Work Order Number: 3000015334 | COC Type: Standard | Page:

Turnaround Time: Standard | COC ID:

16C1177

PROJECT/CLIENT INFO				LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek				St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section			Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS	VOC (EPA 8260)						Lab Sample No.	#
B27-W-(55-59)	Sample	3/23/16	1305			G	NW	WTR-GROUND			3		3						11	1
B27-W-(51-55)	Sample	3/23/16	1318			G	NW	WTR-GROUND			3		3						12	2
B27-W-(42-46)	Sample	3/23/16	1330			G	NW	WTR-GROUND			3		3						13	3
EB-3	QC-FB	3/23/16	1335			G	NW	QC BLANK			3		3						14	4
B42-W-(73-77)	Sample	3/23/16	1503			G	NW	WTR-GROUND			3		3						15	5
B42-W-(69-73)	Sample	3/23/16	1515			G	NW	WTR-GROUND			3		3						16	6
B42-W-(65-69)	Sample	3/23/16	1525			G	NW	WTR-GROUND			3		3						17	7
B42-W-(58-62)	Sample	3/23/16	1540			G	NW	WTR-GROUND			3		3						18	8
B42-W-(54-58)	Sample	3/23/16	1543			G	NW	WTR-GROUND			3		3						19	9
B42-W-(45-49)	Sample	3/23/16	1555			G	NW	WTR-GROUND			3		3						20	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	3/24/16/944	[signature] MDH 3/24/16	944

Minnesota Pollution Control Agency

Chain-of-Custody Form

Work Order Number: 3000015334 | COC Type: Standard | P

Turnaround Time: Standard | COC ID:

16C1177

PROJECT/CLIENT INFO			
Facility Code:	SR377	Program Code (MDH Lab Only):	PL
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955
Project Manager:	Jennifer Jevnisek		
Potential Hazard?	N If yes, add information to Sampler Comments Section		

LABORATORY	
Lab Name:	Minnesota Department of Health
Address:	601 Robert Street N.
	St. Paul, MN 55155
Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
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QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
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OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)						Lab Sample No.	#
B42-W-(41-45)	Sample	3/23/16	1603			G	NW	WTR-GROUND			3	3						-21	1
EB-4	QC-FB	3/23/16	1610			G	NW	QC-BLANK			3	3						-22	2
B41-W-(76-80)	Sample	3/23/16	1710			G	NW	WTR-GROUND			3	3						-23	3
B41-W-(53-57)	Sample	3/23/16	1723			G	NW	WTR-GROUND			3	3						-24	4
B41-W-(48-52)	Sample	3/23/16	1730			G	NW	WTR-GROUND			3	3						-25	5
B41-W-(43-47)	Sample	3/23/16	1745			G	NW	WTR-GROUND			3	3						-26	6
TRIP BLANK-5	QC-TB	3/22/16	0700			G	NW	QC-BLANK			3	3						-27	7
																			8
																			9
																			10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) MELISSA MEEUWSEN /AECOM	3/24/16 9:44	[signature] / MDH 3/24/16	9:44

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16C1177

Parcel Information

Date & time of receipt: MAR 24 '16 9:44

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☑ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☑ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☐ None ☐ Other_____

Custody seals present: ☐ Yes ☑ No; Custody seals intact: ☐ Yes ☐ No ☑ N/A

Custody seal #_____. **Evidentiary samples identified**: ☐ Yes ☑ No

Packaging Information

Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☑ None ☐ Other_____

Cooling material: ☑ Wet ice ☐ Ice-pack( ) ☐ Gel pack( ) ☐ Dry ice ☐ None ☐ Other_____

Condition of cooling material: ☑ Solid ☐ Partial ☐ Liquid; Liquid temperature: _____ °C ☐ N/A

Representative sample temperature: 4.2 °C **IR thermometer instrument used:** BS

Initials of person receiving parcel: _____

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☑ Yes ☐ No

Chain of custody type: ☑ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☑ No, **Sample survey results**: ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☑ Yes ☐ No

Samples received with evidence of freezing: ☐ Yes ☑ No

All sample containers are unique to the sample point listed on the chain of custody: ☑ Yes ☐ No

All samples have been received within the specified holding time for analysis: ☑ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☑ Yes ☐ No

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request: _____

DOC-84
Revision: 2

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected by: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/2016 9:55

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-01

Location ID: B43-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 13:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:00*	*03/28/16 14:00*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:00*	*03/28/16 14:00*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*93*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:00*	*03/28/16 14:00*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*100*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:00*	*03/28/16 14:00*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*95*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:00*	*03/28/16 14:00*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, M1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	500	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-01

Location ID: B43-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 13:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
2-Chlorotoluene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
4-Chlorotoluene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Acetone	D1, Q4	<	2000	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Allyl chloride	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Benzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Bromobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Bromochloromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Bromodichloromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Bromoform	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Bromomethane	D1, Q4	<	200	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Carbon tetrachloride	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Chlorobenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Chlorodibromomethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Chloroethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Chloroform	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Chloromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**1400**	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Dibromomethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Ethyl ether	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Ethylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Isopropylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	1000	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B

Authorized by:

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-01

Location ID: B43-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 13:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	Q4, D1	<	500	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	200	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Methylene chloride	D1, Q4	<	200	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Naphthalene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
n-Butylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
n-Propylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
o-Xylene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
p&m-Xylene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
sec-Butylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Styrene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
tert-Butylbenzene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Tetrachloroethene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	1000	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Toluene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B
Vinyl chloride	D1, Q4	**200**	100	ug/L	1	B6C0591	03/28/16 14:00	03/28/16 14:00	EPA 8260B

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Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-02

Location ID: B43-W-(68-72)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	%	*1*	*B6C0591*	*03/28/16 15:07*	*03/28/16 15:07*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	%	*1*	*B6C0591*	*03/28/16 15:07*	*03/28/16 15:07*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	%	*1*	*B6C0591*	*03/28/16 15:07*	*03/28/16 15:07*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6C0591*	*03/28/16 15:07*	*03/28/16 15:07*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	%	*1*	*B6C0591*	*03/28/16 15:07*	*03/28/16 15:07*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1,1-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1,2-Trichloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1-Dichloroethene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,1-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2,3-Trichloropropane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q2	<	120	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2-Dichloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,3-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,3-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
1,4-Dichlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-02

Location ID: B43-W-(68-72)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
2-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
4-Chlorotoluene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Acetone	D1, Q2	<	500	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Allyl chloride	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Benzene	D1, Q2	**29**	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Bromobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Bromochloromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Bromodichloromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Bromoform	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Bromomethane	D1, Q2	<	50	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Carbon tetrachloride	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Chlorobenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Chlorodibromomethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Chloroethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Chloroform	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Chloromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
cis-1,2-Dichloroethene	D1, Q2	**2000**	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
cis-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Dibromomethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Dichlorodifluoromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Dichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Ethyl ether	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Ethylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Hexachlorobutadiene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Isopropylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q2	<	250	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-02

Location ID: B43-W-(68-72)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q2	<	120	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q2	<	50	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Methylene chloride	D1, Q2	<	50	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Naphthalene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
n-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
n-Propylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
o-Xylene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
p&m-Xylene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
p-Isopropyltoluene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
sec-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Styrene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
tert-Butylbenzene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Tetrachloroethene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Tetrahydrofuran (THF)	D1, Q2	<	250	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Toluene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
trans-1,2-Dichloroethene	D1, Q2	**95**	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
trans-1,3-Dichloropropene	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Trichloroethene (TCE)	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Trichlorofluoromethane	D1, Q2	<	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B
Vinyl chloride	D1, Q2	**170**	25	ug/L	1	B6C0591	03/28/16 15:07	03/28/16 15:07	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-03

Location ID: B43-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:30*	*03/28/16 15:30*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:30*	*03/28/16 15:30*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:30*	*03/28/16 15:30*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:30*	*03/28/16 15:30*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:30*	*03/28/16 15:30*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-03

Location ID: B43-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Benzene	D1	**34**	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-03

Location ID: B43-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
trans-1,2-Dichloroethene	D1	**90**	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B
Vinyl chloride	D1	**180**	25	ug/L	1	B6C0591	03/28/16 15:30	03/28/16 15:30	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-03RE1

Location ID: B43-W-(57-61)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:25*	*03/30/16 15:25*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:25*	*03/30/16 15:25*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:25*	*03/30/16 15:25*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:25*	*03/30/16 15:25*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:25*	*03/30/16 15:25*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**2400**	100	ug/L	1	B6C0645	03/30/16 15:25	03/30/16 15:25	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-04

Location ID: B43-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:53*	*03/28/16 15:53*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*105*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:53*	*03/28/16 15:53*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:53*	*03/28/16 15:53*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:53*	*03/28/16 15:53*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 15:53*	*03/28/16 15:53*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-04

Location ID: B43-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
cis-1,2-Dichloroethene	D1	**920**	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-04

Location ID: B43-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
trans-1,2-Dichloroethene	D1	**59**	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B
Vinyl chloride	D1	**100**	25	ug/L	1	B6C0591	03/28/16 15:53	03/28/16 15:53	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-05RE1

Location ID: B43-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:48*	*03/30/16 15:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:48*	*03/30/16 15:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:48*	*03/30/16 15:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*102*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:48*	*03/30/16 15:48*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 15:48*	*03/30/16 15:48*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-05RE1

Location ID: B43-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Bromomethane	D1, V4, Z-01	<	10	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
cis-1,2-Dichloroethene	D1	**150**	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-05RE1

Location ID: B43-W-(49-53)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
n-Propylbenzene	D1	**6.8**	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
trans-1,2-Dichloroethene	D1	**8.6**	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B
Vinyl chloride	D1	**17**	5.0	ug/L	1	B6C0645	03/30/16 15:48	03/30/16 15:48	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-06RE2

Location ID: B43-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6C0645*	*03/30/16 16:10*	*03/30/16 16:10*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6C0645*	*03/30/16 16:10*	*03/30/16 16:10*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*96*	*70-130*	%	*1*	*B6C0645*	*03/30/16 16:10*	*03/30/16 16:10*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*101*	*70-130*	%	*1*	*B6C0645*	*03/30/16 16:10*	*03/30/16 16:10*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*95*	*70-130*	%	*1*	*B6C0645*	*03/30/16 16:10*	*03/30/16 16:10*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-06RE2

Location ID: B43-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Bromomethane	D1, Q4, V4, Z-01	<	10	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Chloromethane	Q4, D1	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**78**	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-06RE2

Location ID: B43-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/22/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Tetrachloroethene	Q4, D1	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B
Vinyl chloride	D1, Q4	**7.4**	5.0	ug/L	1	B6C0645	03/30/16 16:10	03/30/16 16:10	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-07

Location ID: EB-2
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/22/16
Collect Time: 15:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:15*	*03/28/16 13:15*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:15*	*03/28/16 13:15*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:15*	*03/28/16 13:15*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:15*	*03/28/16 13:15*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:15*	*03/28/16 13:15*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-07

Location ID: EB-2
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/22/16
Collect Time: 15:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Acetone		<	20	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-07

Location ID: EB-2
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/22/16
Collect Time: 15:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:15	03/28/16 13:15	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-08

Location ID: B27-W-(70-74)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:23*	*03/28/16 14:23*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*99*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:23*	*03/28/16 14:23*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*93*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:23*	*03/28/16 14:23*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*100*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:23*	*03/28/16 14:23*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*96*	*70-130*	%	*1*	*B6C0591*	*03/28/16 14:23*	*03/28/16 14:23*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	**38**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-08

Location ID: B27-W-(70-74)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
2-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
4-Chlorotoluene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Acetone	D1, Q4	<	500	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Allyl chloride	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Benzene	D1, Q4	**110**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Bromobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Bromochloromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Bromodichloromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Bromoform	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Bromomethane	D1, Q4	<	50	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Carbon tetrachloride	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Chlorobenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Chlorodibromomethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Chloroethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Chloroform	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Chloromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**1900**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Dibromomethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Ethyl ether	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Ethylbenzene	D1, Q4	**100**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Isopropylbenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-08

Location ID: B27-W-(70-74)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Methylene chloride	D1, Q4	<	50	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Naphthalene	D1, Q4	**650**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
n-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
n-Propylbenzene	Q4, D1	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
o-Xylene	D1, Q4	**63**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
p&m-Xylene	D1, Q4	**65**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
sec-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Styrene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
tert-Butylbenzene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Tetrachloroethene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Toluene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**1400**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Trichloroethene (TCE)	D1, Q4	**960**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B
Vinyl chloride	D1, Q4	**140**	25	ug/L	1	B6C0591	03/28/16 14:23	03/28/16 14:23	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-09

Location ID: B27-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:23*	*03/28/16 17:23*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:23*	*03/28/16 17:23*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:23*	*03/28/16 17:23*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:23*	*03/28/16 17:23*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:23*	*03/28/16 17:23*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2,4-Trimethylbenzene	D1	**43**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-09

Location ID: B27-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Benzene	D1	**120**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
cis-1,2-Dichloroethene	D1	**350**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Ethylbenzene	D1	**110**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-09

Location ID: B27-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Naphthalene	D1	**710**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
o-Xylene	D1	**67**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
p&m-Xylene	D1	**54**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
trans-1,2-Dichloroethene	D1	**300**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Trichloroethene (TCE)	D1	**190**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B
Vinyl chloride	D1	**35**	25	ug/L	1	B6C0591	03/28/16 17:23	03/28/16 17:23	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-10

Location ID: B27-W-(59-63)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:46*	*03/28/16 17:46*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:46*	*03/28/16 17:46*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:46*	*03/28/16 17:46*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:46*	*03/28/16 17:46*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 17:46*	*03/28/16 17:46*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2,4-Trimethylbenzene	D1	**46**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-10

Location ID: B27-W-(59-63)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Benzene	D1	**86**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
cis-1,2-Dichloroethene	D1	**160**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Ethylbenzene	D1	**92**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-10

Location ID: B27-W-(59-63)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 12:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Naphthalene	D1	**950**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
o-Xylene	D1	**50**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
p&m-Xylene	D1	**34**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
trans-1,2-Dichloroethene	D1	**110**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Trichloroethene (TCE)	D1	**58**	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 17:46	03/28/16 17:46	EPA 8260B

Authorized by:

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Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-11

Location ID: B27-W-(55-59)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:08*	*03/28/16 18:08*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:08*	*03/28/16 18:08*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*92*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:08*	*03/28/16 18:08*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:08*	*03/28/16 18:08*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:08*	*03/28/16 18:08*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2,4-Trimethylbenzene	D1	**64**	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B

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Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-11

Location ID: B27-W-(55-59)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Benzene	D1	**78**	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Ethylbenzene	D1	**100**	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-11

Location ID: B27-W-(55-59)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
o-Xylene	D1	**59**	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
p&m-Xylene	D1	**37**	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:08	03/28/16 18:08	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-11RE1

Location ID: B27-W-(55-59)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:05
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:33*	*03/30/16 16:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:33*	*03/30/16 16:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:33*	*03/30/16 16:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*102*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:33*	*03/30/16 16:33*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:33*	*03/30/16 16:33*	*EPA 8260B*
Naphthalene	D1	**1200**	100	ug/L	1	B6C0645	03/30/16 16:33	03/30/16 16:33	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-12

Location ID: B27-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:18
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:31*	*03/28/16 18:31*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:31*	*03/28/16 18:31*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:31*	*03/28/16 18:31*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*97*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:31*	*03/28/16 18:31*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:31*	*03/28/16 18:31*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2,4-Trimethylbenzene	D1	**61**	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-12

Location ID: B27-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:18
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Benzene	D1	**83**	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
cis-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Ethylbenzene	D1	**110**	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B

Authorized by:

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-12

Location ID: B27-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:18
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
o-Xylene	D1	**56**	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
p&m-Xylene	D1	**35**	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B
Vinyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:31	03/28/16 18:31	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-12RE1

Location ID: B27-W-(51-55)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:18
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:56*	*03/30/16 16:56*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:56*	*03/30/16 16:56*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:56*	*03/30/16 16:56*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:56*	*03/30/16 16:56*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 16:56*	*03/30/16 16:56*	*EPA 8260B*
Naphthalene	D1	**1200**	100	ug/L	1	B6C0645	03/30/16 16:56	03/30/16 16:56	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-13

Location ID: B27-W-(42-46)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:53*	*03/28/16 18:53*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:53*	*03/28/16 18:53*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:53*	*03/28/16 18:53*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:53*	*03/28/16 18:53*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 18:53*	*03/28/16 18:53*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2,4-Trimethylbenzene	D1	**88**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-13

Location ID: B27-W-(42-46)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Benzene	D1	**98**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
cis-1,2-Dichloroethene	D1	**320**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Ethylbenzene	D1	**150**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B

Authorized by:

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-13

Location ID: B27-W-(42-46)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
o-Xylene	D1	**86**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
p&m-Xylene	D1	**77**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Tetrachloroethene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
trans-1,2-Dichloroethene	D1	**30**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Trichloroethene (TCE)	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B
Vinyl chloride	D1	**85**	25	ug/L	1	B6C0591	03/28/16 18:53	03/28/16 18:53	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-13RE1

Location ID: B27-W-(42-46)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 13:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:18*	*03/30/16 17:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:18*	*03/30/16 17:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:18*	*03/30/16 17:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:18*	*03/30/16 17:18*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:18*	*03/30/16 17:18*	*EPA 8260B*
Naphthalene	D1	**1300**	100	ug/L	1	B6C0645	03/30/16 17:18	03/30/16 17:18	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-14

Location ID: EB-3
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 13:35
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:38*	*03/28/16 13:38*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:38*	*03/28/16 13:38*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:38*	*03/28/16 13:38*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:38*	*03/28/16 13:38*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*1*	*B6C0591*	*03/28/16 13:38*	*03/28/16 13:38*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-14

Location ID: EB-3
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 13:35
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Acetone		<	20	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-14

Location ID: EB-3
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 13:35
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0591	03/28/16 13:38	03/28/16 13:38	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-15RE1

Location ID: B42-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:40*	*03/30/16 17:40*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:40*	*03/30/16 17:40*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:40*	*03/30/16 17:40*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:40*	*03/30/16 17:40*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 17:40*	*03/30/16 17:40*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-15RE1

Location ID: B42-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Benzene	D1	**17**	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Bromomethane	D1, V4, Z-01	<	10	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
cis-1,2-Dichloroethene	D1	**300**	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-15RE1

Location ID: B42-W-(73-77)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
trans-1,2-Dichloroethene	D1	**58**	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B
Vinyl chloride	D1	**110**	5.0	ug/L	1	B6C0645	03/30/16 17:40	03/30/16 17:40	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-16RE1

Location ID: B42-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:03*	*03/30/16 18:03*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:03*	*03/30/16 18:03*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:03*	*03/30/16 18:03*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:03*	*03/30/16 18:03*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:03*	*03/30/16 18:03*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-16RE1

Location ID: B42-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Benzene	D1	**14**	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Bromomethane	D1, V4, Z-01	<	10	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
cis-1,2-Dichloroethene	D1	**180**	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-16RE1

Location ID: B42-W-(69-73)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:15
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
trans-1,2-Dichloroethene	D1	**40**	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B
Vinyl chloride	D1	**74**	5.0	ug/L	1	B6C0645	03/30/16 18:03	03/30/16 18:03	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-17RE1

Location ID: B42-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:25*	*03/30/16 18:25*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:25*	*03/30/16 18:25*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:25*	*03/30/16 18:25*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:25*	*03/30/16 18:25*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:25*	*03/30/16 18:25*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-17RE1

Location ID: B42-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Benzene	D1	**13**	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Bromomethane	D1, V4, Z-01	<	10	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
cis-1,2-Dichloroethene	D1	**140**	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-17RE1

Location ID: B42-W-(65-69)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
trans-1,2-Dichloroethene	D1	**36**	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B
Vinyl chloride	D1	**78**	5.0	ug/L	1	B6C0645	03/30/16 18:25	03/30/16 18:25	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-18RE1

Location ID: B42-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:48*	*03/30/16 18:48*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:48*	*03/30/16 18:48*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:48*	*03/30/16 18:48*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:48*	*03/30/16 18:48*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 18:48*	*03/30/16 18:48*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-18RE1

Location ID: B42-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Benzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Bromomethane	D1, V4, Z-01	<	20	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
cis-1,2-Dichloroethene	D1	**320**	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Ethylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Isopropylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-18RE1

Location ID: B42-W-(58-62)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:40
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Naphthalene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
n-Propylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
o-Xylene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
p&m-Xylene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Tetrachloroethene	D1	**18**	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Toluene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
trans-1,2-Dichloroethene	D1	**29**	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Trichloroethene (TCE)	D1	**12**	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B
Vinyl chloride	D1	**31**	10	ug/L	1	B6C0645	03/30/16 18:48	03/30/16 18:48	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-19RE1

Location ID: B42-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:43
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:10*	*03/30/16 19:10*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:10*	*03/30/16 19:10*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:10*	*03/30/16 19:10*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:10*	*03/30/16 19:10*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:10*	*03/30/16 19:10*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-19RE1

Location ID: B42-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:43
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Bromomethane	D1, V4, Z-01	<	200	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Chloromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
cis-1,2-Dichloroethene	D1	**1400**	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-19RE1

Location ID: B42-W-(54-58)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:43
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Tetrachloroethene	D1	**1800**	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Trichloroethene (TCE)	D1	**920**	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6C0645	03/30/16 19:10	03/30/16 19:10	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-20

Location ID: B42-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 16:19*	*03/29/16 16:19*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*104*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 16:19*	*03/29/16 16:19*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 16:19*	*03/29/16 16:19*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 16:19*	*03/29/16 16:19*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 16:19*	*03/29/16 16:19*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2,4-Trimethylbenzene	D1	**350**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,3,5-Trimethylbenzene	D1	**82**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-20

Location ID: B42-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Benzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Bromomethane	D1	<	20	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
cis-1,2-Dichloroethene	D1	**230**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Ethylbenzene	D1	**39**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Isopropylbenzene	D1	**26**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-20

Location ID: B42-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Naphthalene	D1	**55**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
n-Propylbenzene	D1	**63**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
o-Xylene	D1	**29**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Tetrachloroethene	D1	**210**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Toluene	D1	**13**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
trans-1,2-Dichloroethene	D1	**11**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Trichloroethene (TCE)	D1	**100**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B
Vinyl chloride	D1	**11**	10	ug/L	1	B6C0607	03/29/16 16:19	03/29/16 16:19	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-20RE1

Location ID: B42-W-(45-49)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 15:55
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	%	*1*	*B6D0005*	*04/01/16 15:20*	*04/01/16 15:20*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	%	*1*	*B6D0005*	*04/01/16 15:20*	*04/01/16 15:20*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	%	*1*	*B6D0005*	*04/01/16 15:20*	*04/01/16 15:20*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*102*	*70-130*	%	*1*	*B6D0005*	*04/01/16 15:20*	*04/01/16 15:20*	*EPA 8260B*
Surrogate: Toluene-d8		*96*	*70-130*	%	*1*	*B6D0005*	*04/01/16 15:20*	*04/01/16 15:20*	*EPA 8260B*
p&m-Xylene	D1	**800**	25	ug/L	1	B6D0005	04/01/16 15:20	04/01/16 15:20	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-21RE1

Location ID: B42-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 16:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*102*	*70-130*	%	*1*	*B6C0645*	*03/30/16 19:33*	*03/30/16 19:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6C0645*	*03/30/16 19:33*	*03/30/16 19:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*95*	*70-130*	%	*1*	*B6C0645*	*03/30/16 19:33*	*03/30/16 19:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*102*	*70-130*	%	*1*	*B6C0645*	*03/30/16 19:33*	*03/30/16 19:33*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*95*	*70-130*	%	*1*	*B6C0645*	*03/30/16 19:33*	*03/30/16 19:33*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2,3-Trichlorobenzene	Q4, D1	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	**42**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	**10**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-21RE1

Location ID: B42-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 16:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Bromomethane	Q4, V4, Z-01, D1	<	10	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**170**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
cis-1,3-Dichloropropene	Q4, D1	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Ethylbenzene	D1, Q4	**6.0**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-21RE1

Location ID: B42-W-(41-45)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 16:03
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Naphthalene	D1, Q4	**7.0**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
n-Propylbenzene	D1, Q4	**8.2**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
p&m-Xylene	D1, Q4	**83**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Tetrachloroethene	D1, Q4	**82**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**7.5**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Trichloroethene (TCE)	D1, Q4	**51**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B
Vinyl chloride	D1, Q4	**9.8**	5.0	ug/L	1	B6C0645	03/30/16 19:33	03/30/16 19:33	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-22

Location ID: EB-4
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 16:10
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 13:55*	*03/29/16 13:55*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 13:55*	*03/29/16 13:55*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 13:55*	*03/29/16 13:55*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 13:55*	*03/29/16 13:55*	*EPA 8260B*
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 13:55*	*03/29/16 13:55*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-22

Location ID: EB-4
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 16:10
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Acetone		<	20	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-22

Location ID: EB-4
Field Name: None
Sampling Point: None
QA Type: Field Blank

Collect Date: 03/23/16
Collect Time: 16:10
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0607	03/29/16 13:55	03/29/16 13:55	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-23

Location ID: B41-W-(76-80)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:40*	*03/29/16 14:40*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:40*	*03/29/16 14:40*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*92*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:40*	*03/29/16 14:40*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:40*	*03/29/16 14:40*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:40*	*03/29/16 14:40*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2,4-Trimethylbenzene	D1	**17**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-23

Location ID: B41-W-(76-80)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Benzene	D1	**21**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Bromomethane	D1	<	20	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
cis-1,2-Dichloroethene	D1	**500**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Ethylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Isopropylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-23

Location ID: B41-W-(76-80)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Naphthalene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
n-Propylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
o-Xylene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
p&m-Xylene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Tetrachloroethene	D1	**17**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Toluene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
trans-1,2-Dichloroethene	D1	**88**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Trichloroethene (TCE)	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B
Vinyl chloride	D1	**170**	10	ug/L	1	B6C0607	03/29/16 14:40	03/29/16 14:40	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-24

Location ID: B41-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:23
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:04*	*03/29/16 17:04*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:04*	*03/29/16 17:04*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*92*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:04*	*03/29/16 17:04*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:04*	*03/29/16 17:04*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:04*	*03/29/16 17:04*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2,4-Trimethylbenzene	D1	**87**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,3,5-Trimethylbenzene	D1	**25**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-24

Location ID: B41-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:23
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
cis-1,2-Dichloroethene	D1	**620**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-24

Location ID: B41-W-(53-57)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:23
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Tetrachloroethene	D1	**1300**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
trans-1,2-Dichloroethene	D1	**56**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Trichloroethene (TCE)	D1	**500**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B
Vinyl chloride	D1	**39**	25	ug/L	1	B6C0607	03/29/16 17:04	03/29/16 17:04	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-25

Location ID: B41-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:27*	*03/29/16 17:27*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:27*	*03/29/16 17:27*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*92*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:27*	*03/29/16 17:27*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:27*	*03/29/16 17:27*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:27*	*03/29/16 17:27*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2,4-Trimethylbenzene	D1	**81**	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-25

Location ID: B41-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
cis-1,2-Dichloroethene	D1	**510**	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-25

Location ID: B41-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
n-Propylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
trans-1,2-Dichloroethene	D1	**46**	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Trichloroethene (TCE)	D1	**1600**	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B
Vinyl chloride	D1	**28**	25	ug/L	1	B6C0607	03/29/16 17:27	03/29/16 17:27	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-25RE1

Location ID: B41-W-(48-52)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:56*	*03/30/16 19:56*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:56*	*03/30/16 19:56*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*95*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:56*	*03/30/16 19:56*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:56*	*03/30/16 19:56*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 19:56*	*03/30/16 19:56*	*EPA 8260B*
Tetrachloroethene	D1	**21000**	1000	ug/L	1	B6C0645	03/30/16 19:56	03/30/16 19:56	EPA 8260B

Authorized by:

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-26

Location ID: B41-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:49*	*03/29/16 17:49*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:49*	*03/29/16 17:49*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*92*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:49*	*03/29/16 17:49*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:49*	*03/29/16 17:49*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 17:49*	*03/29/16 17:49*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1,1-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1,2-Trichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1-Dichloroethene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,1-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2,3-Trichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2,4-Trimethylbenzene	D1	**460**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2-Dichloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,3,5-Trimethylbenzene	D1	**130**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,3-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,3-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
1,4-Dichlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-26

Location ID: B41-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
2-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
4-Chlorotoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Acetone	D1	<	500	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Allyl chloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Benzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Bromobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Bromochloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Bromodichloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Bromoform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Bromomethane	D1	<	50	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Carbon tetrachloride	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Chlorobenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Chlorodibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Chloroethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Chloroform	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Chloromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
cis-1,2-Dichloroethene	D1	**230**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
cis-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Dibromomethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Dichlorodifluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Dichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Ethyl ether	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Ethylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Hexachlorobutadiene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Isopropylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-26

Location ID: B41-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	120	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	50	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Methylene chloride	D1	<	50	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Naphthalene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
n-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
n-Propylbenzene	D1	**69**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
o-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
p&m-Xylene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
p-Isopropyltoluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
sec-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Styrene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
tert-Butylbenzene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Tetrahydrofuran (THF)	D1	<	250	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Toluene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
trans-1,2-Dichloroethene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
trans-1,3-Dichloropropene	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Trichloroethene (TCE)	D1	**270**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Trichlorofluoromethane	D1	<	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B
Vinyl chloride	D1	**39**	25	ug/L	1	B6C0607	03/29/16 17:49	03/29/16 17:49	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-26RE1

Location ID: B41-W-(43-47)
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 03/23/16
Collect Time: 17:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*98*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 20:18*	*03/30/16 20:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 20:18*	*03/30/16 20:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 20:18*	*03/30/16 20:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 20:18*	*03/30/16 20:18*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0645*	*03/30/16 20:18*	*03/30/16 20:18*	*EPA 8260B*
Tetrachloroethene	D1	**3100**	100	ug/L	1	B6C0645	03/30/16 20:18	03/30/16 20:18	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-27

Location ID: Trip Blank-5
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/22/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:18*	*03/29/16 14:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:18*	*03/29/16 14:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:18*	*03/29/16 14:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:18*	*03/29/16 14:18*	*EPA 8260B*
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*1*	*B6C0607*	*03/29/16 14:18*	*03/29/16 14:18*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-27

Location ID: Trip Blank-5
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/22/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Acetone		<	20	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Benzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: None
Generated: 04/12/16 9:56

MDH Sample Number: 16C1177-27

Location ID: Trip Blank-5
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 03/22/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Styrene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Toluene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6C0607	03/29/16 14:18	03/29/16 14:18	EPA 8260B

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Batch Summary

Samples in Batch: B6C0591 - EPA 5030B Preparation

16C1177-01	16C1177-02	16C1177-03	16C1177-04	16C1177-07	16C1177-08	16C1177-09
16C1177-10	16C1177-11	16C1177-12	16C1177-13	16C1177-14		

Samples in Batch: B6C0607 - EPA 5030B Preparation

16C1177-20	16C1177-22	16C1177-23	16C1177-24	16C1177-25	16C1177-26	16C1177-27

Samples in Batch: B6C0645 - EPA 5030B Preparation

16C1177-03RE1	16C1177-05RE1	16C1177-06RE2	16C1177-11RE1	16C1177-12RE1	16C1177-13RE1	16C1177-15RE1
16C1177-16RE1	16C1177-17RE1	16C1177-18RE1	16C1177-19RE1	16C1177-21RE1	16C1177-25RE1	16C1177-26RE1

Samples in Batch: B6D0005 - EPA 5030B Preparation

16C1177-20RE1

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Blank (B6C0591-BLK1) **Prepared: 03/28/16 12:52 Analyzed: 03/28/16 12:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Blank (B6C0591-BLK1) **Prepared: 03/28/16 12:52 Analyzed: 03/28/16 12:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Blank (B6C0591-BLK1) **Prepared: 03/28/16 12:52 Analyzed: 03/28/16 12:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0591-BS1) **Prepared: 03/28/16 11:11 Analyzed: 03/28/16 11:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*96*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		9.6	1.0	ug/L	10		96	70-130		
1,1,2,2-Tetrachloroethane		8.8	1.0	ug/L	10		88	70-130		
1,1,2-Trichloroethane		9.0	1.0	ug/L	10		90	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		105	70-130		
1,1-Dichloroethane		9.3	1.0	ug/L	10		93	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		101	70-130		
1,1-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichloropropane		8.9	1.0	ug/L	10		89	70-130		
1,2,4-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,4-Trimethylbenzene		9.2	1.0	ug/L	10		92	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		8.2	5.0	ug/L	10		82	70-130		
1,2-Dibromoethane (EDB)		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2-Dichloroethane		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
1,3,5-Trimethylbenzene		9.0	1.0	ug/L	10		90	70-130		
1,3-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,3-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
1,4-Dichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
2,2-Dichloropropane		9.5	1.0	ug/L	10		95	70-130		
2-Chlorotoluene		9.0	1.0	ug/L	10		90	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

LCS (B6C0591-BS1) **Prepared: 03/28/16 11:11 Analyzed: 03/28/16 11:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		9.0	1.0	ug/L	10		90	70-130		
Acetone		87	20	ug/L	100		87	70-130		
Allyl chloride		9.6	1.0	ug/L	10		96	70-130		
Benzene		9.8	1.0	ug/L	10		98	70-130		
Bromobenzene		9.6	1.0	ug/L	10		96	70-130		
Bromochloromethane		10	1.0	ug/L	10		104	70-130		
Bromodichloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromoform		8.7	1.0	ug/L	10		87	70-130		
Bromomethane		7.7	2.0	ug/L	10		77	70-130		
Carbon tetrachloride		9.4	1.0	ug/L	10		94	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		9.1	1.0	ug/L	10		91	70-130		
Chloroethane		8.4	1.0	ug/L	10		84	70-130		
Chloroform		9.6	1.0	ug/L	10		96	70-130		
Chloromethane		9.3	1.0	ug/L	10		93	70-130		
cis-1,2-Dichloroethene		10	1.0	ug/L	10		102	70-130		
cis-1,3-Dichloropropene		8.7	1.0	ug/L	10		87	70-130		
Dibromomethane		9.9	1.0	ug/L	10		99	70-130		
Dichlorodifluoromethane		9.9	1.0	ug/L	10		99	70-130		
Dichlorofluoromethane		9.0	1.0	ug/L	10		90	70-130		
Ethyl ether		9.5	1.0	ug/L	10		95	70-130		
Ethylbenzene		9.5	1.0	ug/L	10		95	70-130		
Hexachlorobutadiene		9.9	1.0	ug/L	10		99	70-130		
Isopropylbenzene		9.2	1.0	ug/L	10		92	70-130		
Methyl ethyl ketone (MEK)		45	10	ug/L	50		90	70-130		
Methyl isobutyl ketone (MIBK)		42	5.0	ug/L	50		83	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		9.7	2.0	ug/L	10		97	70-130		
Naphthalene		9.5	1.0	ug/L	10		95	70-130		
n-Butylbenzene		8.8	1.0	ug/L	10		88	70-130		
n-Propylbenzene		9.2	1.0	ug/L	10		92	70-130		
o-Xylene		9.6	1.0	ug/L	10		96	70-130		
p&m-Xylene		9.6	1.0	ug/L	10		96	70-130		
p-Isopropyltoluene		9.4	1.0	ug/L	10		94	70-130		
sec-Butylbenzene		9.5	1.0	ug/L	10		95	70-130		

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

LCS (B6C0591-BS1) **Prepared: 03/28/16 11:11 Analyzed: 03/28/16 11:11**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.3	1.0	ug/L	10		93	70-130		
tert-Butylbenzene		9.3	1.0	ug/L	10		93	70-130		
Tetrachloroethene		10	1.0	ug/L	10		101	70-130		
Tetrahydrofuran (THF)		88	10	ug/L	100		88	70-130		
Toluene		9.5	1.0	ug/L	10		95	70-130		
trans-1,2-Dichloroethene		9.9	1.0	ug/L	10		99	70-130		
trans-1,3-Dichloropropene		8.8	1.0	ug/L	10		88	70-130		
Trichloroethene (TCE)		10	1.0	ug/L	10		102	70-130		
Trichlorofluoromethane		9.5	1.0	ug/L	10		95	70-130		
Vinyl chloride		8.8	1.0	ug/L	10		88	70-130		

Duplicate (B6C0591-DUP1) Source: 16C1177-08 **Prepared: 03/28/16 14:45 Analyzed: 03/28/16 14:45**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4	Q4	*99*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene	Q4	*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8	Q4	*95*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1, Q4	<	25	ug/L		<				30
1,1,1-Trichloroethane	D1, Q4	<	25	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1, Q4	<	25	ug/L		<				30
1,1,2-Trichloroethane	D1, Q4	<	25	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	25	ug/L		<				30
1,1-Dichloroethane	D1, Q4	<	25	ug/L		<				30
1,1-Dichloroethene	D1, Q4	<	25	ug/L		<				30
1,1-Dichloropropene	D1, Q4	<	25	ug/L		<				30
1,2,3-Trichlorobenzene	D1, Q4	<	25	ug/L		<				30
1,2,3-Trichloropropane	D1, Q4	<	25	ug/L		<				30
1,2,4-Trichlorobenzene	D1, Q4	<	25	ug/L		<				30
1,2,4-Trimethylbenzene	D1, Q4	37	25	ug/L		38			4	30
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	120	ug/L		<				30
1,2-Dibromoethane (EDB)	D1, Q4	<	25	ug/L		<				30
1,2-Dichlorobenzene	D1, Q4	<	25	ug/L		<				30
1,2-Dichloroethane	D1, Q4	<	25	ug/L		<				30

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Duplicate (B6C0591-DUP1) Source: 16C1177-08 **Prepared: 03/28/16 14:45 Analyzed: 03/28/16 14:45**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	Q4, D1	<	25	ug/L		<				30
1,3,5-Trimethylbenzene	D1, Q4	<	25	ug/L		<				30
1,3-Dichlorobenzene	D1, Q4	<	25	ug/L		<				30
1,3-Dichloropropane	D1, Q4	<	25	ug/L		<				30
1,4-Dichlorobenzene	D1, Q4	<	25	ug/L		<				30
2,2-Dichloropropane	D1, Q4	<	25	ug/L		<				30
2-Chlorotoluene	D1, Q4	<	25	ug/L		<				30
4-Chlorotoluene	D1, Q4	<	25	ug/L		<				30
Acetone	D1, Q4	<	500	ug/L		<				30
Allyl chloride	Q4, D1	<	25	ug/L		<				30
Benzene	D1, Q4	110	25	ug/L		110			3	30
Bromobenzene	D1, Q4	<	25	ug/L		<				30
Bromochloromethane	D1, Q4	<	25	ug/L		<				30
Bromodichloromethane	D1, Q4	<	25	ug/L		<				30
Bromoform	D1, Q4	<	25	ug/L		<				30
Bromomethane	D1, Q4	<	50	ug/L		<				30
Carbon tetrachloride	D1, Q4	<	25	ug/L		<				30
Chlorobenzene	D1, Q4	<	25	ug/L		<				30
Chlorodibromomethane	D1, Q4	<	25	ug/L		<				30
Chloroethane	D1, Q4	<	25	ug/L		<				30
Chloroform	D1, Q4	<	25	ug/L		<				30
Chloromethane	D1, Q4	<	25	ug/L		<				30
cis-1,2-Dichloroethene	D1, Q4	1800	25	ug/L		1900			2	30
cis-1,3-Dichloropropene	Q4, D1	<	25	ug/L		<				30
Dibromomethane	D1, Q4	<	25	ug/L		<				30
Dichlorodifluoromethane	Q4, D1	<	25	ug/L		<				30
Dichlorofluoromethane	D1, Q4	<	25	ug/L		<				30
Ethyl ether	D1, Q4	<	25	ug/L		<				30
Ethylbenzene	D1, Q4	100	25	ug/L		100			3	30
Hexachlorobutadiene	D1, Q4	<	25	ug/L		<				30
Isopropylbenzene	D1, Q4	9.2	25	ug/L		<			0	30
Methyl ethyl ketone (MEK)	D1, Q4	<	250	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1, Q4	<	120	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	50	ug/L		<				30
Methylene chloride	D1, Q4	<	50	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Duplicate (B6C0591-DUP1) Source: 16C1177-08 **Prepared: 03/28/16 14:45 Analyzed: 03/28/16 14:45**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1, Q4	650	25	ug/L		650			0.04	30
n-Butylbenzene	D1, Q4	<	25	ug/L		<				30
n-Propylbenzene	D1, Q4	<	25	ug/L		<				30
o-Xylene	D1, Q4	63	25	ug/L		63			0.8	30
p&m-Xylene	D1, Q4	62	25	ug/L		65			4	30
p-Isopropyltoluene	D1, Q4	<	25	ug/L		<				30
sec-Butylbenzene	D1, Q4	<	25	ug/L		<				30
Styrene	D1, Q4	<	25	ug/L		<				30
tert-Butylbenzene	D1, Q4	<	25	ug/L		<				30
Tetrachloroethene	D1, Q4	<	25	ug/L		<				30
Tetrahydrofuran (THF)	D1, Q4	<	250	ug/L		<				30
Toluene	D1, Q4	<	25	ug/L		<				30
trans-1,2-Dichloroethene	D1, Q4	1400	25	ug/L		1400			2	30
trans-1,3-Dichloropropene	D1, Q4	<	25	ug/L		<				30
Trichloroethene (TCE)	D1, Q4	940	25	ug/L		960			2	30
Trichlorofluoromethane	D1, Q4	<	25	ug/L		<				30
Vinyl chloride	D1, Q4	140	25	ug/L		140			3	30

Matrix Spike (B6C0591-MS1) Source: 16C1177-01 **Prepared: 03/28/16 12:30 Analyzed: 03/28/16 12:30**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene	Q4	*92*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane	Q4	*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8	Q4	*96*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1, Q4	1000	100	ug/L	1,000	<	104	70-130		
1,1,1-Trichloroethane	D1, Q4	1200	100	ug/L	1,000	<	116	70-130		
1,1,2,2-Tetrachloroethane	D1, Q4	950	100	ug/L	1,000	<	95	70-130		
1,1,2-Trichloroethane	D1, Q4	960	100	ug/L	1,000	<	96	70-130		
1,1,2-Trichlorotrifluoroethane	D1, M1, Q4	1300	100	ug/L	1,000	<	133	70-130		
1,1-Dichloroethane	D1, Q4	1100	100	ug/L	1,000	<	108	70-130		
1,1-Dichloroethene	D1, Q4	1200	100	ug/L	1,000	<	122	70-130		
1,1-Dichloropropene	D1, Q4	1200	100	ug/L	1,000	<	117	70-130		
1,2,3-Trichlorobenzene	D1, Q4	1100	100	ug/L	1,000	<	108	70-130		
1,2,3-Trichloropropane	Q4, D1	940	100	ug/L	1,000	<	94	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Matrix Spike (B6C0591-MS1) Source: 16C1177-01 **Prepared: 03/28/16 12:30 Analyzed: 03/28/16 12:30**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	D1, Q4	1000	100	ug/L	1,000	<	105	70-130		
1,2,4-Trimethylbenzene	D1, Q4	1000	100	ug/L	1,000	<	103	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	850	500	ug/L	1,000	<	85	70-130		
1,2-Dibromoethane (EDB)	D1, Q4	1000	100	ug/L	1,000	<	103	70-130		
1,2-Dichlorobenzene	D1, Q4	1000	100	ug/L	1,000	<	105	70-130		
1,2-Dichloroethane	D1, Q4	980	100	ug/L	1,000	<	98	70-130		
1,2-Dichloropropane	D1, Q4	1100	100	ug/L	1,000	<	105	70-130		
1,3,5-Trimethylbenzene	D1, Q4	1000	100	ug/L	1,000	<	103	70-130		
1,3-Dichlorobenzene	D1, Q4	1100	100	ug/L	1,000	<	107	70-130		
1,3-Dichloropropane	D1, Q4	1000	100	ug/L	1,000	<	100	70-130		
1,4-Dichlorobenzene	D1, Q4	1100	100	ug/L	1,000	<	109	70-130		
2,2-Dichloropropane	D1, Q4	1100	100	ug/L	1,000	<	113	70-130		
2-Chlorotoluene	D1, Q4	1000	100	ug/L	1,000	<	101	70-130		
4-Chlorotoluene	D1, Q4	1000	100	ug/L	1,000	<	102	70-130		
Acetone	D1, Q4	10000	2000	ug/L	10,000	<	101	70-130		
Allyl chloride	D1, Q4	1100	100	ug/L	1,000	<	110	70-130		
Benzene	D1, Q4	1100	100	ug/L	1,000	<	115	70-130		
Bromobenzene	D1, Q4	1100	100	ug/L	1,000	<	106	70-130		
Bromochloromethane	D1, Q4	1100	100	ug/L	1,000	<	115	70-130		
Bromodichloromethane	D1, Q4	1000	100	ug/L	1,000	<	103	70-130		
Bromoform	D1, Q4	910	100	ug/L	1,000	<	91	70-130		
Bromomethane	D1, Q4	990	200	ug/L	1,000	<	99	70-130		
Carbon tetrachloride	D1, Q4	1100	100	ug/L	1,000	<	111	70-130		
Chlorobenzene	D1, Q4	1100	100	ug/L	1,000	<	112	70-130		
Chlorodibromomethane	D1, Q4	970	100	ug/L	1,000	<	97	70-130		
Chloroethane	D1, Q4	1000	100	ug/L	1,000	<	100	70-130		
Chloroform	D1, Q4	1100	100	ug/L	1,000	<	110	70-130		
Chloromethane	D1, Q4	1100	100	ug/L	1,000	<	111	70-130		
cis-1,2-Dichloroethene	D1, Q4	2600	100	ug/L	1,000	1400	112	70-130		
cis-1,3-Dichloropropene	D1, Q4	970	100	ug/L	1,000	<	97	70-130		
Dibromomethane	D1, Q4	1100	100	ug/L	1,000	<	107	70-130		
Dichlorodifluoromethane	D1, Q4	1200	100	ug/L	1,000	<	120	70-130		
Dichlorofluoromethane	D1, Q4	1100	100	ug/L	1,000	<	106	70-130		
Ethyl ether	D1, Q4	1100	100	ug/L	1,000	<	106	70-130		
Ethylbenzene	D1, Q4	1100	100	ug/L	1,000	<	110	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0591 - EPA 5030B Preparation

Matrix Spike (B6C0591-MS1) Source: 16C1177-01 **Prepared: 03/28/16 12:30 Analyzed: 03/28/16 12:30**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobutadiene	D1, Q4	1100	100	ug/L	1,000	<	112	70-130		
Isopropylbenzene	D1, Q4	1100	100	ug/L	1,000	<	106	70-130		
Methyl ethyl ketone (MEK)	D1, Q4	5000	1000	ug/L	5,000	<	99	70-130		
Methyl isobutyl ketone (MIBK)	Q4, D1	4500	500	ug/L	5,000	<	90	70-130		
Methyl tertiary butyl ether (MTBE)	D1, Q4	1000	200	ug/L	1,000	<	102	70-130		
Methylene chloride	D1, Q4	1100	200	ug/L	1,000	<	110	70-130		
Naphthalene	D1, Q4	1000	100	ug/L	1,000	<	100	70-130		
n-Butylbenzene	D1, Q4	1000	100	ug/L	1,000	<	104	70-130		
n-Propylbenzene	D1, Q4	1100	100	ug/L	1,000	<	108	70-130		
o-Xylene	D1, Q4	1100	100	ug/L	1,000	<	110	70-130		
p&m-Xylene	D1, Q4	1100	100	ug/L	1,000	<	110	70-130		
p-Isopropyltoluene	D1, Q4	1100	100	ug/L	1,000	<	109	70-130		
sec-Butylbenzene	D1, Q4	1100	100	ug/L	1,000	<	111	70-130		
Styrene	D1, Q4	1000	100	ug/L	1,000	<	104	70-130		
tert-Butylbenzene	D1, Q4	1100	100	ug/L	1,000	<	106	70-130		
Tetrachloroethene	D1, Q4	1200	100	ug/L	1,000	<	122	70-130		
Tetrahydrofuran (THF)	D1, Q4	9700	1000	ug/L	10,000	<	97	70-130		
Toluene	D1, Q4	1100	100	ug/L	1,000	<	109	70-130		
trans-1,2-Dichloroethene	D1, Q4	1300	100	ug/L	1,000	<	118	70-130		
trans-1,3-Dichloropropene	D1, Q4	970	100	ug/L	1,000	<	97	70-130		
Trichloroethene (TCE)	D1, Q4	1200	100	ug/L	1,000	<	116	70-130		
Trichlorofluoromethane	D1, Q4	1200	100	ug/L	1,000	<	117	70-130		
Vinyl chloride	D1, Q4	1200	100	ug/L	1,000	200	104	70-130		

Batch B6C0607 - EPA 5030B Preparation

Blank (B6C0607-BLK1) **Prepared: 03/29/16 12:57 Analyzed: 03/29/16 12:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						

FINAL REPORT

Report ID: 04122016 95602

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Blank (B6C0607-BLK1) **Prepared: 03/29/16 12:57 Analyzed: 03/29/16 12:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Blank (B6C0607-BLK1) **Prepared: 03/29/16 12:57 Analyzed: 03/29/16 12:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

LCS (B6C0607-BS1) **Prepared: 03/29/16 11:49 Analyzed: 03/29/16 11:49**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1,1-Trichloroethane		10	1.0	ug/L	10		101	70-130		
1,1,2,2-Tetrachloroethane		8.4	1.0	ug/L	10		84	70-130		
1,1,2-Trichloroethane		8.6	1.0	ug/L	10		86	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		113	70-130		
1,1-Dichloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1-Dichloroethene		11	1.0	ug/L	10		106	70-130		
1,1-Dichloropropene		10	1.0	ug/L	10		102	70-130		
1,2,3-Trichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2,3-Trichloropropane		8.6	1.0	ug/L	10		86	70-130		
1,2,4-Trichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2,4-Trimethylbenzene		8.9	1.0	ug/L	10		89	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		7.3	5.0	ug/L	10		73	70-130		
1,2-Dibromoethane (EDB)		9.2	1.0	ug/L	10		92	70-130		
1,2-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2-Dichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,2-Dichloropropane		9.5	1.0	ug/L	10		95	70-130		
1,3,5-Trimethylbenzene		8.8	1.0	ug/L	10		88	70-130		
1,3-Dichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,3-Dichloropropane		9.1	1.0	ug/L	10		91	70-130		
1,4-Dichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
2,2-Dichloropropane		9.7	1.0	ug/L	10		97	70-130		
2-Chlorotoluene		8.7	1.0	ug/L	10		87	70-130		
4-Chlorotoluene		8.7	1.0	ug/L	10		87	70-130		
Acetone		89	20	ug/L	100		89	70-130		
Allyl chloride		9.9	1.0	ug/L	10		99	70-130		
Benzene		10	1.0	ug/L	10		101	70-130		
Bromobenzene		9.3	1.0	ug/L	10		93	70-130		
Bromochloromethane		11	1.0	ug/L	10		109	70-130		
Bromodichloromethane		9.3	1.0	ug/L	10		93	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

LCS (B6C0607-BS1) **Prepared: 03/29/16 11:49 Analyzed: 03/29/16 11:49**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		8.1	1.0	ug/L	10		81	70-130		
Bromomethane		9.4	2.0	ug/L	10		94	70-130		
Carbon tetrachloride		9.7	1.0	ug/L	10		97	70-130		
Chlorobenzene		9.7	1.0	ug/L	10		97	70-130		
Chlorodibromomethane		8.7	1.0	ug/L	10		87	70-130		
Chloroethane		8.8	1.0	ug/L	10		88	70-130		
Chloroform		9.8	1.0	ug/L	10		98	70-130		
Chloromethane		8.2	1.0	ug/L	10		82	70-130		
cis-1,2-Dichloroethene		10	1.0	ug/L	10		104	70-130		
cis-1,3-Dichloropropene		8.5	1.0	ug/L	10		85	70-130		
Dibromomethane		10	1.0	ug/L	10		101	70-130		
Dichlorodifluoromethane		7.8	1.0	ug/L	10		78	70-130		
Dichlorofluoromethane		9.4	1.0	ug/L	10		94	70-130		
Ethyl ether		9.7	1.0	ug/L	10		97	70-130		
Ethylbenzene		9.5	1.0	ug/L	10		95	70-130		
Hexachlorobutadiene		9.7	1.0	ug/L	10		97	70-130		
Isopropylbenzene		9.1	1.0	ug/L	10		91	70-130		
Methyl ethyl ketone (MEK)		45	10	ug/L	50		89	70-130		
Methyl isobutyl ketone (MIBK)		40	5.0	ug/L	50		81	70-130		
Methyl tertiary butyl ether (MTBE)		9.4	2.0	ug/L	10		94	70-130		
Methylene chloride		10	2.0	ug/L	10		100	70-130		
Naphthalene		9.0	1.0	ug/L	10		90	70-130		
n-Butylbenzene		8.8	1.0	ug/L	10		88	70-130		
n-Propylbenzene		9.0	1.0	ug/L	10		90	70-130		
o-Xylene		9.6	1.0	ug/L	10		96	70-130		
p&m-Xylene		9.5	1.0	ug/L	10		95	70-130		
p-Isopropyltoluene		9.2	1.0	ug/L	10		92	70-130		
sec-Butylbenzene		9.3	1.0	ug/L	10		93	70-130		
Styrene		9.2	1.0	ug/L	10		92	70-130		
tert-Butylbenzene		9.2	1.0	ug/L	10		92	70-130		
Tetrachloroethene		10	1.0	ug/L	10		102	70-130		
Tetrahydrofuran (THF)		89	10	ug/L	100		89	70-130		
Toluene		9.5	1.0	ug/L	10		95	70-130		
trans-1,2-Dichloroethene		10	1.0	ug/L	10		104	70-130		
trans-1,3-Dichloropropene		8.6	1.0	ug/L	10		86	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

LCS (B6C0607-BS1) **Prepared: 03/29/16 11:49 Analyzed: 03/29/16 11:49**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		10	1.0	ug/L	10		103	70-130		
Trichlorofluoromethane		9.8	1.0	ug/L	10		98	70-130		
Vinyl chloride		8.7	1.0	ug/L	10		87	70-130		

Duplicate (B6C0607-DUP1) Source: 16C1177-19 **Prepared: 03/29/16 15:34 Analyzed: 03/29/16 15:34**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L		<				30
1,1,1-Trichloroethane	D1	<	10	ug/L		<				30
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L		<				30
1,1,2-Trichloroethane	D1	<	10	ug/L		<				30
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L		<				30
1,1-Dichloroethane	D1	<	10	ug/L		<				30
1,1-Dichloroethene	D1	4.9	10	ug/L		<			6	30
1,1-Dichloropropene	D1	<	10	ug/L		<				30
1,2,3-Trichlorobenzene	D1	<	10	ug/L		<				30
1,2,3-Trichloropropane	D1	<	10	ug/L		<				30
1,2,4-Trichlorobenzene	D1	<	10	ug/L		<				30
1,2,4-Trimethylbenzene	D1	<	10	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L		<				30
1,2-Dibromoethane (EDB)	D1	<	10	ug/L		<				30
1,2-Dichlorobenzene	D1	<	10	ug/L		<				30
1,2-Dichloroethane	D1	<	10	ug/L		<				30
1,2-Dichloropropane	D1	<	10	ug/L		<				30
1,3,5-Trimethylbenzene	D1	<	10	ug/L		<				30
1,3-Dichlorobenzene	D1	<	10	ug/L		<				30
1,3-Dichloropropane	D1	<	10	ug/L		<				30
1,4-Dichlorobenzene	D1	<	10	ug/L		<				30
2,2-Dichloropropane	D1	<	10	ug/L		<				30
2-Chlorotoluene	D1	<	10	ug/L		<				30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Duplicate (B6C0607-DUP1) Source: 16C1177-19 **Prepared: 03/29/16 15:34 Analyzed: 03/29/16 15:34**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene	D1	<	10	ug/L		<				30
Acetone	D1	<	200	ug/L		<				30
Allyl chloride	D1	<	10	ug/L		<				30
Benzene	D1	3.9	10	ug/L		<			5	30
Bromobenzene	D1	<	10	ug/L		<				30
Bromochloromethane	D1	<	10	ug/L		<				30
Bromodichloromethane	D1	<	10	ug/L		<				30
Bromoform	D1	<	10	ug/L		<				30
Bromomethane	D1	<	20	ug/L		<				30
Carbon tetrachloride	D1	<	10	ug/L		<				30
Chlorobenzene	D1	<	10	ug/L		<				30
Chlorodibromomethane	D1	<	10	ug/L		<				30
Chloroethane	D1	<	10	ug/L		<				30
Chloroform	D1	<	10	ug/L		<				30
Chloromethane	D1	<	10	ug/L		<				30
cis-1,2-Dichloroethene	D1, E2	1400	10	ug/L		1500			3	30
cis-1,3-Dichloropropene	D1	<	10	ug/L		<				30
Dibromomethane	D1	<	10	ug/L		<				30
Dichlorodifluoromethane	D1	<	10	ug/L		<				30
Dichlorofluoromethane	D1	<	10	ug/L		<				30
Ethyl ether	D1	<	10	ug/L		<				30
Ethylbenzene	D1	<	10	ug/L		<				30
Hexachlorobutadiene	D1	<	10	ug/L		<				30
Isopropylbenzene	D1	<	10	ug/L		<				30
Methyl ethyl ketone (MEK)	D1	<	100	ug/L		<				30
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L		<				30
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L		<				30
Methylene chloride	D1	<	20	ug/L		<				30
Naphthalene	D1	<	10	ug/L		<				30
n-Butylbenzene	D1	<	10	ug/L		<				30
n-Propylbenzene	D1	<	10	ug/L		<				30
o-Xylene	D1	<	10	ug/L		<				30
p&m-Xylene	D1	<	10	ug/L		<				30
p-Isopropyltoluene	D1	<	10	ug/L		<				30
sec-Butylbenzene	D1	<	10	ug/L		<				30

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Final Report
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Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Duplicate (B6C0607-DUP1) Source: 16C1177-19 **Prepared: 03/29/16 15:34 Analyzed: 03/29/16 15:34**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene	D1	<	10	ug/L		<				30
tert-Butylbenzene	D1	<	10	ug/L		<				30
Tetrachloroethene	D1, E2	1900	10	ug/L		2000			4	30
Tetrahydrofuran (THF)	D1	<	100	ug/L		<				30
Toluene	D1	<	10	ug/L		<				30
trans-1,2-Dichloroethene	D1	70	10	ug/L		72			2	30
trans-1,3-Dichloropropene	D1	<	10	ug/L		<				30
Trichloroethene (TCE)	E2, D1	920	10	ug/L		970			5	30
Trichlorofluoromethane	D1	<	10	ug/L		<				30
Vinyl chloride	D1	25	10	ug/L		27			7	30

Matrix Spike (B6C0607-MS1) Source: 16C1177-23 **Prepared: 03/29/16 12:12 Analyzed: 03/29/16 12:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	98	10	ug/L	100	<	98	70-130		
1,1,1-Trichloroethane	D1	110	10	ug/L	100	<	113	70-130		
1,1,2,2-Tetrachloroethane	D1	89	10	ug/L	100	<	89	70-130		
1,1,2-Trichloroethane	D1	94	10	ug/L	100	<	94	70-130		
1,1,2-Trichlorotrifluoroethane	D1	130	10	ug/L	100	<	128	70-130		
1,1-Dichloroethane	D1	110	10	ug/L	100	<	106	70-130		
1,1-Dichloroethene	D1	120	10	ug/L	100	<	121	70-130		
1,1-Dichloropropene	D1	120	10	ug/L	100	<	115	70-130		
1,2,3-Trichlorobenzene	D1	100	10	ug/L	100	<	103	70-130		
1,2,3-Trichloropropane	D1	90	10	ug/L	100	<	90	70-130		
1,2,4-Trichlorobenzene	D1	100	10	ug/L	100	<	102	70-130		
1,2,4-Trimethylbenzene	D1	120	10	ug/L	100	17	100	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	80	50	ug/L	100	<	80	70-130		
1,2-Dibromoethane (EDB)	D1	100	10	ug/L	100	<	101	70-130		
1,2-Dichlorobenzene	D1	100	10	ug/L	100	<	101	70-130		
1,2-Dichloroethane	D1	97	10	ug/L	100	<	97	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Matrix Spike (B6C0607-MS1) Source: 16C1177-23 **Prepared: 03/29/16 12:12 Analyzed: 03/29/16 12:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	D1	100	10	ug/L	100	<	102	70-130		
1,3,5-Trimethylbenzene	D1	100	10	ug/L	100	<	99	70-130		
1,3-Dichlorobenzene	D1	100	10	ug/L	100	<	102	70-130		
1,3-Dichloropropane	D1	97	10	ug/L	100	<	97	70-130		
1,4-Dichlorobenzene	D1	100	10	ug/L	100	<	104	70-130		
2,2-Dichloropropane	D1	110	10	ug/L	100	<	110	70-130		
2-Chlorotoluene	D1	99	10	ug/L	100	<	99	70-130		
4-Chlorotoluene	D1	97	10	ug/L	100	<	97	70-130		
Acetone	D1	910	200	ug/L	1,000	<	91	70-130		
Allyl chloride	D1	110	10	ug/L	100	<	109	70-130		
Benzene	D1	130	10	ug/L	100	21	112	70-130		
Bromobenzene	D1	100	10	ug/L	100	<	102	70-130		
Bromochloromethane	D1	120	10	ug/L	100	<	116	70-130		
Bromodichloromethane	D1	100	10	ug/L	100	<	100	70-130		
Bromoform	D1	87	10	ug/L	100	<	87	70-130		
Bromomethane	D1	100	20	ug/L	100	<	102	70-130		
Carbon tetrachloride	D1	110	10	ug/L	100	<	107	70-130		
Chlorobenzene	D1	110	10	ug/L	100	<	107	70-130		
Chlorodibromomethane	D1	94	10	ug/L	100	<	94	70-130		
Chloroethane	D1	99	10	ug/L	100	<	99	70-130		
Chloroform	D1	110	10	ug/L	100	<	108	70-130		
Chloromethane	D1	110	10	ug/L	100	<	106	70-130		
cis-1,2-Dichloroethene	D1	620	10	ug/L	100	500	120	70-130		
cis-1,3-Dichloropropene	D1	92	10	ug/L	100	<	92	70-130		
Dibromomethane	D1	110	10	ug/L	100	<	105	70-130		
Dichlorodifluoromethane	D1	120	10	ug/L	100	<	117	70-130		
Dichlorofluoromethane	D1	100	10	ug/L	100	<	104	70-130		
Ethyl ether	D1	100	10	ug/L	100	<	104	70-130		
Ethylbenzene	D1	110	10	ug/L	100	<	106	70-130		
Hexachlorobutadiene	D1	110	10	ug/L	100	<	110	70-130		
Isopropylbenzene	D1	100	10	ug/L	100	<	103	70-130		
Methyl ethyl ketone (MEK)	D1	450	100	ug/L	500	<	90	70-130		
Methyl isobutyl ketone (MIBK)	D1	420	50	ug/L	500	<	84	70-130		
Methyl tertiary butyl ether (MTBE)	D1	100	20	ug/L	100	<	102	70-130		
Methylene chloride	D1	110	20	ug/L	100	<	108	70-130		

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Paul Moyer, Environmental Laboratory Manager
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0607 - EPA 5030B Preparation

Matrix Spike (B6C0607-MS1) Source: 16C1177-23 **Prepared: 03/29/16 12:12 Analyzed: 03/29/16 12:12**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	D1	99	10	ug/L	100	<	99	70-130		
n-Butylbenzene	D1	100	10	ug/L	100	<	102	70-130		
n-Propylbenzene	D1	100	10	ug/L	100	<	104	70-130		
o-Xylene	D1	100	10	ug/L	100	<	104	70-130		
p&m-Xylene	D1	110	10	ug/L	100	<	106	70-130		
p-Isopropyltoluene	D1	100	10	ug/L	100	<	104	70-130		
sec-Butylbenzene	D1	110	10	ug/L	100	<	105	70-130		
Styrene	D1	100	10	ug/L	100	<	102	70-130		
tert-Butylbenzene	D1	100	10	ug/L	100	<	102	70-130		
Tetrachloroethene	D1	130	10	ug/L	100	17	116	70-130		
Tetrahydrofuran (THF)	D1	890	100	ug/L	1,000	<	89	70-130		
Toluene	D1	110	10	ug/L	100	<	105	70-130		
trans-1,2-Dichloroethene	D1	200	10	ug/L	100	88	117	70-130		
trans-1,3-Dichloropropene	D1	91	10	ug/L	100	<	91	70-130		
Trichloroethene (TCE)	D1	120	10	ug/L	100	<	118	70-130		
Trichlorofluoromethane	D1	110	10	ug/L	100	<	111	70-130		
Vinyl chloride	D1	280	10	ug/L	100	170	110	70-130		

Batch B6C0645 - EPA 5030B Preparation

Blank (B6C0645-BLK1) **Prepared: 03/30/16 15:02 Analyzed: 03/30/16 15:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*94*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*95*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0645 - EPA 5030B Preparation

Blank (B6C0645-BLK1) **Prepared: 03/30/16 15:02 Analyzed: 03/30/16 15:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane	V4, Z-01	<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0645 - EPA 5030B Preparation

Blank (B6C0645-BLK1) **Prepared: 03/30/16 15:02 Analyzed: 03/30/16 15:02**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6C0645-BS1) **Prepared: 03/30/16 14:40 Analyzed: 03/30/16 14:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*93*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		10	1.0	ug/L	10		100	70-130		

FINAL REPORT

Report ID: 04122016 95602

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0645 - EPA 5030B Preparation

LCS (B6C0645-BS1) **Prepared: 03/30/16 14:40 Analyzed: 03/30/16 14:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		8.3	1.0	ug/L	10		83	70-130		
1,1,2-Trichloroethane		8.9	1.0	ug/L	10		89	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		104	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		101	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		100	70-130		
1,1-Dichloropropene		10	1.0	ug/L	10		102	70-130		
1,2,3-Trichlorobenzene		9.4	1.0	ug/L	10		94	70-130		
1,2,3-Trichloropropane		8.6	1.0	ug/L	10		86	70-130		
1,2,4-Trichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2,4-Trimethylbenzene		8.6	1.0	ug/L	10		86	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		7.8	5.0	ug/L	10		78	70-130		
1,2-Dibromoethane (EDB)		9.2	1.0	ug/L	10		92	70-130		
1,2-Dichlorobenzene		9.1	1.0	ug/L	10		91	70-130		
1,2-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,2-Dichloropropane		10	1.0	ug/L	10		102	70-130		
1,3,5-Trimethylbenzene		8.6	1.0	ug/L	10		86	70-130		
1,3-Dichlorobenzene		8.9	1.0	ug/L	10		89	70-130		
1,3-Dichloropropane		9.3	1.0	ug/L	10		93	70-130		
1,4-Dichlorobenzene		9.1	1.0	ug/L	10		91	70-130		
2,2-Dichloropropane		9.8	1.0	ug/L	10		98	70-130		
2-Chlorotoluene		8.6	1.0	ug/L	10		86	70-130		
4-Chlorotoluene		8.7	1.0	ug/L	10		87	70-130		
Acetone		96	20	ug/L	100		96	70-130		
Allyl chloride		9.6	1.0	ug/L	10		96	70-130		
Benzene		10	1.0	ug/L	10		101	70-130		
Bromobenzene		9.1	1.0	ug/L	10		91	70-130		
Bromochloromethane		11	1.0	ug/L	10		105	70-130		
Bromodichloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromoform		8.1	1.0	ug/L	10		81	70-130		
Bromomethane	V4, Z-01	9.3	2.0	ug/L	10		93	70-130		
Carbon tetrachloride		9.9	1.0	ug/L	10		99	70-130		
Chlorobenzene		9.5	1.0	ug/L	10		95	70-130		
Chlorodibromomethane		8.8	1.0	ug/L	10		88	70-130		
Chloroethane		10	1.0	ug/L	10		101	70-130		
Chloroform		10	1.0	ug/L	10		101	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6C0645 - EPA 5030B Preparation

LCS (B6C0645-BS1) **Prepared: 03/30/16 14:40 Analyzed: 03/30/16 14:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		11	1.0	ug/L	10		115	70-130		
cis-1,2-Dichloroethene		10	1.0	ug/L	10		102	70-130		
cis-1,3-Dichloropropene		8.8	1.0	ug/L	10		88	70-130		
Dibromomethane		10	1.0	ug/L	10		100	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		104	70-130		
Dichlorofluoromethane		10	1.0	ug/L	10		101	70-130		
Ethyl ether		9.8	1.0	ug/L	10		98	70-130		
Ethylbenzene		9.4	1.0	ug/L	10		94	70-130		
Hexachlorobutadiene		9.7	1.0	ug/L	10		97	70-130		
Isopropylbenzene		8.7	1.0	ug/L	10		87	70-130		
Methyl ethyl ketone (MEK)		49	10	ug/L	50		99	70-130		
Methyl isobutyl ketone (MIBK)		47	5.0	ug/L	50		93	70-130		
Methyl tertiary butyl ether (MTBE)		9.9	2.0	ug/L	10		99	70-130		
Methylene chloride		10	2.0	ug/L	10		102	70-130		
Naphthalene		8.6	1.0	ug/L	10		86	70-130		
n-Butylbenzene		8.5	1.0	ug/L	10		85	70-130		
n-Propylbenzene		8.8	1.0	ug/L	10		88	70-130		
o-Xylene		9.2	1.0	ug/L	10		92	70-130		
p&m-Xylene		9.1	1.0	ug/L	10		91	70-130		
p-Isopropyltoluene		8.7	1.0	ug/L	10		87	70-130		
sec-Butylbenzene		8.9	1.0	ug/L	10		89	70-130		
Styrene		9.0	1.0	ug/L	10		90	70-130		
tert-Butylbenzene		8.7	1.0	ug/L	10		87	70-130		
Tetrachloroethene		9.6	1.0	ug/L	10		96	70-130		
Tetrahydrofuran (THF)		100	10	ug/L	100		100	70-130		
Toluene		9.3	1.0	ug/L	10		93	70-130		
trans-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
trans-1,3-Dichloropropene		8.9	1.0	ug/L	10		89	70-130		
Trichloroethene (TCE)		10	1.0	ug/L	10		102	70-130		
Trichlorofluoromethane		10	1.0	ug/L	10		100	70-130		
Vinyl chloride		9.9	1.0	ug/L	10		99	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0005 - EPA 5030B Preparation

Blank (B6D0005-BLK1) **Prepared: 04/01/16 14:57 Analyzed: 04/01/16 14:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*103*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0005 - EPA 5030B Preparation

Blank (B6D0005-BLK1) **Prepared: 04/01/16 14:57 Analyzed: 04/01/16 14:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane	V4, Z-01	<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0005 - EPA 5030B Preparation

Blank (B6D0005-BLK1) **Prepared: 04/01/16 14:57 Analyzed: 04/01/16 14:57**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6D0005-BS1) **Prepared: 04/01/16 14:35 Analyzed: 04/01/16 14:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*96*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*96*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*103*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*94*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.0	1.0	ug/L	10		90	70-130		
1,1,1-Trichloroethane		10	1.0	ug/L	10		102	70-130		
1,1,2,2-Tetrachloroethane		8.5	1.0	ug/L	10		85	70-130		
1,1,2-Trichloroethane		9.1	1.0	ug/L	10		91	70-130		
1,1,2-Trichlorotrifluoroethane		11	1.0	ug/L	10		108	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		101	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		103	70-130		
1,1-Dichloropropene		10	1.0	ug/L	10		101	70-130		
1,2,3-Trichlorobenzene		9.3	1.0	ug/L	10		93	70-130		
1,2,3-Trichloropropane		9.0	1.0	ug/L	10		90	70-130		
1,2,4-Trichlorobenzene		9.2	1.0	ug/L	10		92	70-130		
1,2,4-Trimethylbenzene		8.6	1.0	ug/L	10		86	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		7.9	5.0	ug/L	10		79	70-130		
1,2-Dibromoethane (EDB)		9.1	1.0	ug/L	10		91	70-130		
1,2-Dichlorobenzene		9.0	1.0	ug/L	10		90	70-130		
1,2-Dichloroethane		10	1.0	ug/L	10		101	70-130		
1,2-Dichloropropane		10	1.0	ug/L	10		102	70-130		
1,3,5-Trimethylbenzene		8.5	1.0	ug/L	10		85	70-130		
1,3-Dichlorobenzene		8.8	1.0	ug/L	10		88	70-130		
1,3-Dichloropropane		9.4	1.0	ug/L	10		94	70-130		
1,4-Dichlorobenzene		9.0	1.0	ug/L	10		90	70-130		
2,2-Dichloropropane		10	1.0	ug/L	10		100	70-130		
2-Chlorotoluene		8.5	1.0	ug/L	10		85	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0005 - EPA 5030B Preparation

LCS (B6D0005-BS1) **Prepared: 04/01/16 14:35 Analyzed: 04/01/16 14:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		8.6	1.0	ug/L	10		86	70-130		
Acetone		110	20	ug/L	100		105	70-130		
Allyl chloride		9.8	1.0	ug/L	10		98	70-130		
Benzene		10	1.0	ug/L	10		101	70-130		
Bromobenzene		8.9	1.0	ug/L	10		89	70-130		
Bromochloromethane		11	1.0	ug/L	10		109	70-130		
Bromodichloromethane		9.7	1.0	ug/L	10		97	70-130		
Bromoform		8.5	1.0	ug/L	10		85	70-130		
Bromomethane	V4, Z-01	9.5	2.0	ug/L	10		95	70-130		
Carbon tetrachloride		9.8	1.0	ug/L	10		98	70-130		
Chlorobenzene		9.4	1.0	ug/L	10		94	70-130		
Chlorodibromomethane		8.6	1.0	ug/L	10		86	70-130		
Chloroethane		10	1.0	ug/L	10		104	70-130		
Chloroform		10	1.0	ug/L	10		101	70-130		
Chloromethane		11	1.0	ug/L	10		108	70-130		
cis-1,2-Dichloroethene		10	1.0	ug/L	10		101	70-130		
cis-1,3-Dichloropropene		8.8	1.0	ug/L	10		88	70-130		
Dibromomethane		10	1.0	ug/L	10		103	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		104	70-130		
Dichlorofluoromethane		11	1.0	ug/L	10		105	70-130		
Ethyl ether		10	1.0	ug/L	10		104	70-130		
Ethylbenzene		9.2	1.0	ug/L	10		92	70-130		
Hexachlorobutadiene		9.5	1.0	ug/L	10		95	70-130		
Isopropylbenzene		8.7	1.0	ug/L	10		87	70-130		
Methyl ethyl ketone (MEK)		54	10	ug/L	50		108	70-130		
Methyl isobutyl ketone (MIBK)		48	5.0	ug/L	50		97	70-130		
Methyl tertiary butyl ether (MTBE)		10	2.0	ug/L	10		102	70-130		
Methylene chloride		10	2.0	ug/L	10		103	70-130		
Naphthalene		8.7	1.0	ug/L	10		87	70-130		
n-Butylbenzene		8.5	1.0	ug/L	10		85	70-130		
n-Propylbenzene		8.7	1.0	ug/L	10		87	70-130		
o-Xylene		9.0	1.0	ug/L	10		90	70-130		
p&m-Xylene		9.0	1.0	ug/L	10		90	70-130		
p-Isopropyltoluene		8.7	1.0	ug/L	10		87	70-130		
sec-Butylbenzene		8.8	1.0	ug/L	10		88	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: None
Collector ID: None	Generated: 04/12/16 9:56

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0005 - EPA 5030B Preparation

LCS (B6D0005-BS1) **Prepared: 04/01/16 14:35 Analyzed: 04/01/16 14:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		8.8	1.0	ug/L	10		88	70-130		
tert-Butylbenzene		8.6	1.0	ug/L	10		86	70-130		
Tetrachloroethene		9.2	1.0	ug/L	10		92	70-130		
Tetrahydrofuran (THF)		110	10	ug/L	100		108	70-130		
Toluene		9.1	1.0	ug/L	10		91	70-130		
trans-1,2-Dichloroethene		10	1.0	ug/L	10		100	70-130		
trans-1,3-Dichloropropene		9.1	1.0	ug/L	10		91	70-130		
Trichloroethene (TCE)		10	1.0	ug/L	10		101	70-130		
Trichlorofluoromethane		11	1.0	ug/L	10		105	70-130		
Vinyl chloride		10	1.0	ug/L	10		100	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Data Qualifiers and Definitions

Z-01	There is no indication of out of control trends with this analyte; failure is random.
V4	Calibration verification standard recovery was below method acceptance limits. See comments or additional qualifiers.
Q4	Sample received and analyzed without chemical preservation.
Q2	Sample received with head space.
M1	Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix problems.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 5/11/16
Client Name: PL - MPCA - Metro MERLA-SF
Project Code: PL
Project Name: Metro MERLA-SF

Work Order Number: 16D1374

Report To: PL - MPCA - Metro MERLA-SF
Jennifer Jevnisek
520 Lafayette Rd.
Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164
(651) 201-5300
http://www.health.mn.us/divs/phl/environmental

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Summary of Samples Received

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Work Order Comment: All samples received at a temperature greater than 6 degrees C (10.9 C); however they were received the same day as collection and on ice per MPCA requirements. EES 4/21/16

Field ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B45W-6670	16D1374-01	Wtr-Ground	04/20/16 9:22	04/20/16 15:55	10.9
B45W-6266	16D1374-02	Wtr-Ground	04/20/16 9:33	04/20/16 15:55	10.9
B45W-5862	16D1374-03	Wtr-Ground	04/20/16 9:46	04/20/16 15:55	10.9
B45W-5357	16D1374-04	Wtr-Ground	04/20/16 9:57	04/20/16 15:55	10.9
B45W-4852	16D1374-05	Wtr-Ground	04/20/16 10:08	04/20/16 15:55	10.9
B45W-4347	16D1374-06	Wtr-Ground	04/20/16 10:26	04/20/16 15:55	10.9
DUPW-7	16D1374-07	Wtr-Ground	04/20/16 10:35	04/20/16 15:55	10.9
B33W-6670	16D1374-08	Wtr-Ground	04/20/16 11:57	04/20/16 15:55	10.9
B33W-6266	16D1374-09	Wtr-Ground	04/20/16 12:10	04/20/16 15:55	10.9
B33W-5862	16D1374-10	Wtr-Ground	04/20/16 12:25	04/20/16 15:55	10.9
B33W-5357	16D1374-11	Wtr-Ground	04/20/16 12:33	04/20/16 15:55	10.9
B33W-4852	16D1374-12	Wtr-Ground	04/20/16 12:45	04/20/16 15:55	10.9
B33W-4347	16D1374-13	Wtr-Ground	04/20/16 13:00	04/20/16 15:55	10.9
DUPW-8	16D1374-14	Wtr-Ground	04/20/16 13:10	04/20/16 15:55	10.9
B44W-6670	16D1374-15	Wtr-Ground	04/20/16 14:30	04/20/16 15:55	10.9
B44W-6266	16D1374-16	Wtr-Ground	04/20/16 14:41	04/20/16 15:55	10.9
B44W-5862	16D1374-17	Wtr-Ground	04/20/16 14:50	04/20/16 15:55	10.9
B44W-5357	16D1374-18	Wtr-Ground	04/20/16 15:00	04/20/16 15:55	10.9
B44W-4852	16D1374-19	Wtr-Ground	04/20/16 15:06	04/20/16 15:55	10.9
B44W-4347	16D1374-20	Wtr-Ground	04/20/16 15:20	04/20/16 15:55	10.9
DUPW-9	16D1374-21	Wtr-Ground	04/20/16 15:35	04/20/16 15:55	10.9
TRIP BLANK	16D1374-22	QC-BLANK	04/20/16 7:00	04/20/16 15:55	10.9

Field ID	MDH Sample Number	Receiving Comments
B45W-4852	16D1374-05	MS/MSD

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Field ID	MDH Sample Number	Receiving Comments
B33W-4852	16D1374-12	MS/MSD
B44W-4852	16D1374-19	MS/MSD

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 **COC Type:** Standard **Page:** 1 of 3

Turnaround Time: Standard **COC ID:**

16D1374

PROJECT/CLIENT INFO				LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek				St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section			Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B45W-6670	Sample	4/20/16	0922			G	NW	WTR-GROUND			3	3	-01	1
B45W-6266	Sample	4/20/16	0933			G	NW	WTR-GROUND			3	3	-02	2
B45W-5862	Sample	4/20/16	0946			G	NW	WTR-GROUND			3	3	-03	3
B45W-5357	Sample	4/20/16	0957			G	NW	WTR-GROUND			3	3	-04	4
B45W-4852	Sample	4/20/16	1008			G	NW	WTR-GROUND		MS/MSD	9	9	-05	5
B45W-4347	Sample	4/20/16	1026			G	NW	WTR-GROUND			3	3	-06	6
DUPW-7	QC-FR	4/20/16	1035			G	NW	WTR-GROUND			3	3	-07	7
B33W-6670	Sample	4/20/16	1157			G	NW	WTR-GROUND			3	3	-08	8
B33W-6266	Sample	4/20/16	1210			G	NW	WTR-GROUND			3	3	-09	9
B33W-5862	Sample	4/20/16	1225			G	NW	WTR-GROUND			3	3	-10	10

Sampled By: Melissa Meeuwsen **Sampler's Signature:** [signature] **Phone #:** 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) MELISSA MEEUWSEN / RECOM	4/20/16 / 1554	[illegible]	4/20/16 1555

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.0909

Work Order Number: 3000015334 | COC Type: Standard | Page: 2 of 3

Turnaround Time: Standard | COC ID:

16D1374

PROJECT/CLIENT INFO				LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek				St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section			Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
B33W-5357	Sample	4/20/16	1233			G	NW	WTR-Ground			3	3	-11	1
B33W-4852	Sample	4/20/16	1245			G	NW	WTR-Ground		MS/MSD	9	9	-12	2
B33W-4347	Sample	4/20/16	1300			G	NW	WTR-Ground			3	3	-13	3
DUPW-8	QC-FR	4/20/16	1310			G	NW	WTR-Ground			3	3	-14	4
B44W-6670	Sample	4/20/16	1430			G	NW	WTR-Ground			3	3	-15	5
B44W-6266	Sample	4/20/16	1441			G	NW	WTR-Ground			3	3	-16	6
B44W-5862	Sample	4/20/16	1450			G	NW	WTR-Ground			3	3	-17	7
B44W-5357	Sample	4/20/16	1500			G	NW	WTR-Ground			3	3	-18	8
B44W-4852	Sample	4/20/16	1506			G	NW	WTR-Ground		MS/MSD	9	9	-19	9
B44W-4347	Sample	4/20/16	1520			G	NW	WTR-Ground			3	3	-20	10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affiliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	4/20/16 / 1554	[signature] / MDH	4/20/16 1555

Minnesota Pollution Control Agency

Chain-of-Custody Form

revision 2013.09.09

Work Order Number: 3000015334 | COC Type: Standard | Page 3

Turnaround Time: Standard | COC ID:

16D1374

PROJECT/CLIENT INFO				LABORATORY	
Facility Code:	SR377	Program Code (MDH Lab Only):	PL	Lab Name:	Minnesota Department of Health
Project Name:	Saint Louis Park Investigation FY16	Project Task Code:	PRJ07955	Address:	601 Robert Street N.
Project Manager:	Jennifer Jevnisek				St. Paul, MN 55155
Potential Hazard?	N If yes, add information to Sampler Comments Section			Phone No:	651-201-5058

SAMPLE DETAILS

SAMPLE TYPE CODES
Sample=Routine Sample
S-IVP=Integrated Vertical Profile Sample
S-CWOP=Composite Sample
QC-FB=Field Blank Sample
QC-FR=Field Replicate Sample
QC-TB=Trip Blank Sample

LAB MATRIX CODES
DW=Drinking Water
NW=Non-potable Water
SD=Soil/Solid
WP=Wipe
AR=Air
BL=Biological Material
OT=Other
TS=Tissue

FIELD MATRIX CODES
Wtr-Ground=Groundwater
Wtr-Surf=Surface Water
QC-BLANK=Artificial Blank Water
Leachate=Leachate Sample

ANALYSIS REQUESTED

Location Identifier	Sample Type	Date	Time	Start Depth, in meters	End Depth, in meters	Grab (G) or Composite (C) Sample	Lab Matrix Code	Field Matrix Code	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	PRESERV. / ANALYSIS: VOC (EPA 8260)	Lab Sample No.	#
DupW-9	QC-FR	4/20/16	1555			G	NW	WTR-GROUND			3	3	-21	1
TRIP BLANK	QC-TB	4/20/16	0700			G	NW	QC-BLANK			3	3	.22	2
														3
														4
														5
														6
														7
														8
														9
														10

Sampled By: Melissa Meeuwsen | Sampler's Signature: [signature] | Phone #: 612-298-2074

Receiving Comments:

Relinquished By/Affiliation	Date/Time	Accepted By/ Affilliation	Date/Time
(Sampler) MELISSA MEEUWSEN / AECOM	4/20/16/1554	[signature] / MDH	4/20/16 1555

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

16D1374

Parcel Information

Date & time of receipt: APR 20'16 15:55

Courier: ☐ UPS ☐ FedEx ☐ Spee-Dee ☐ USPS ☐ Other_____ ☑ Walk-in

Tracking # _____

After hours drop off: ☐ Refrigerator ☐ Freezer ☐ Unrefrigerated

Parcel: ☑ Plastic cooler ☐ Styrofoam cooler ☐ Cardboard box ☐ Single mailer ☐ Envelope ☐ None

☐ Other_____

Custody seals present: ☐ Yes ☑ No; Custody seals intact: ☐ Yes ☐ No ☑ N/A

Custody seal #_____. **Evidentiary samples identified**: ☐ Yes ☑ No

Packaging Information

Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☑ None ☐ Other_____

Cooling material: ☑ Wet ice ☐ Ice-pack( ) ☐ Gel pack( ) ☐ Dry ice ☐ None ☐ Other_____

Condition of cooling material: ☑ Solid ☐ Partial ☐ Liquid; Liquid temperature: _____°C ☐ N/A

Representative sample temperature: 10-9 °C **IR thermometer instrument used:** AS

Initials of person receiving parcel: LM

Chain of Custody, Sample Container & Analysis Information

Chain of custody received: ☑ Yes ☐ No

Chain of custody type: ☑ Standard ☐ Civil ☐ Criminal ☐ Priority/Emergency ☐ Unknown

Rad Chem request received: ☐ Yes ☑ No, **Sample survey results**: ☐ < .5 mrem/hr ☐ ≥ .5 mrem/hr

All sample containers received intact: ☑ Yes ☐ No

Samples received with evidence of freezing: ☐ Yes ☑ No

All sample containers are unique to the sample point listed on the chain of custody: ☑ Yes ☐ No

All samples have been received within the specified holding time for analysis: ☑ Yes ☐ No ☐ Unknown

Sample submission meets the conditions of the MDH Environmental Laboratory Sample Acceptance Policy: ☑ Yes ☐ No

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request: LM

DOC-84
Revision: 2

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Case Narrative

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name: SR377
Collected by: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/2016 13:18

Except where noted in this report, no additional comments are needed for this Work Order.

Authorized by:

The results in this report apply only to the samples analyzed.
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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-01

Location ID: B45W-6670	Collect Date: 04/20/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 9:22	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:41*	*04/28/16 15:41*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:41*	*04/28/16 15:41*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:41*	*04/28/16 15:41*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:41*	*04/28/16 15:41*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:41*	*04/28/16 15:41*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B

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Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-01

Location ID: B45W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:22
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Benzene	D1	**8.6**	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
cis-1,2-Dichloroethene	D1	**71**	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-01

Location ID: B45W-6670	Collect Date: 04/20/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 9:22	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: None		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
trans-1,2-Dichloroethene	D1	**23**	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B
Vinyl chloride	D1	**43**	5.0	ug/L	1	B6D0712	04/28/16 15:41	04/28/16 15:41	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-02

Location ID: B45W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:04*	*04/28/16 16:04*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:04*	*04/28/16 16:04*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:04*	*04/28/16 16:04*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:04*	*04/28/16 16:04*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:04*	*04/28/16 16:04*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-02

Location ID: B45W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Benzene	D1	**11**	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
cis-1,2-Dichloroethene	D1	**82**	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-02

Location ID: B45W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
trans-1,2-Dichloroethene	D1	**25**	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B
Vinyl chloride	D1	**49**	5.0	ug/L	1	B6D0712	04/28/16 16:04	04/28/16 16:04	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-03

Location ID: B45W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*102*	*70-130*	%	*1*	*B6D0712*	*04/28/16 16:26*	*04/28/16 16:26*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*100*	*70-130*	%	*1*	*B6D0712*	*04/28/16 16:26*	*04/28/16 16:26*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*104*	*70-130*	%	*1*	*B6D0712*	*04/28/16 16:26*	*04/28/16 16:26*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6D0712*	*04/28/16 16:26*	*04/28/16 16:26*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6D0712*	*04/28/16 16:26*	*04/28/16 16:26*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-03

Location ID: B45W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Allyl chloride	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Benzene	D1, Q4	**6.4**	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**25**	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Isopropylbenzene	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B

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Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-03

Location ID: B45W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:46
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**13**	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Trichloroethene (TCE)	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B
Vinyl chloride	D1, Q4	**16**	5.0	ug/L	1	B6D0712	04/28/16 16:26	04/28/16 16:26	EPA 8260B

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St. Paul, MN 55164-0899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-04

Location ID: B45W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:49*	*04/28/16 16:49*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:49*	*04/28/16 16:49*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:49*	*04/28/16 16:49*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:49*	*04/28/16 16:49*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 16:49*	*04/28/16 16:49*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B

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St. Paul, MN 55164-0899
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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-04

Location ID: B45W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
cis-1,2-Dichloroethene	D1	**12**	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-04

Location ID: B45W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 9:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
trans-1,2-Dichloroethene	D1	**20**	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B
Vinyl chloride	D1	**14**	5.0	ug/L	1	B6D0712	04/28/16 16:49	04/28/16 16:49	EPA 8260B

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Public Health Laboratory
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-05

Location ID: B45W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:08
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:10*	*04/28/16 14:10*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:10*	*04/28/16 14:10*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:10*	*04/28/16 14:10*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:10*	*04/28/16 14:10*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:10*	*04/28/16 14:10*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-05

Location ID: B45W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:08
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Chloromethane	D1, M1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
cis-1,2-Dichloroethene	D1	**73**	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-05

Location ID: B45W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:08
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
trans-1,2-Dichloroethene	D1	**110**	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B
Vinyl chloride	D1	**21**	5.0	ug/L	1	B6D0712	04/28/16 14:10	04/28/16 14:10	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-06

Location ID: B45W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:12*	*04/28/16 17:12*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:12*	*04/28/16 17:12*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:12*	*04/28/16 17:12*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:12*	*04/28/16 17:12*	*EPA 8260B*
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:12*	*04/28/16 17:12*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,3,5-Trimethylbenzene	D1	**66**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-06

Location ID: B45W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
cis-1,2-Dichloroethene	D1	**52**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Ethylbenzene	D1	**16**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Isopropylbenzene	D1	**15**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B

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QA Type: None

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Collect Time: 10:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Naphthalene	D1	**18**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
n-Propylbenzene	D1	**50**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
o-Xylene	D1	**11**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
p&m-Xylene	D1	**77**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
sec-Butylbenzene	D1	**5.1**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
trans-1,2-Dichloroethene	D1	**61**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B
Vinyl chloride	D1	**7.6**	5.0	ug/L	1	B6D0712	04/28/16 17:12	04/28/16 17:12	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-06RE1

Location ID: B45W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 10:26
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:02*	*04/29/16 18:02*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:02*	*04/29/16 18:02*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:02*	*04/29/16 18:02*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:02*	*04/29/16 18:02*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:02*	*04/29/16 18:02*	*EPA 8260B*
1,2,4-Trimethylbenzene	D1	**280**	10	ug/L	1	B6D0765	04/29/16 18:02	04/29/16 18:02	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-07

Location ID: DUPW-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:34*	*04/28/16 17:34*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:34*	*04/28/16 17:34*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:34*	*04/28/16 17:34*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:34*	*04/28/16 17:34*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 17:34*	*04/28/16 17:34*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,3,5-Trimethylbenzene	D1	**63**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-07

Location ID: DUPW-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
cis-1,2-Dichloroethene	D1	**56**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Ethylbenzene	D1	**15**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Isopropylbenzene	D1	**14**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-07

Location ID: DUPW-7
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 10:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Naphthalene	D1	**17**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
n-Propylbenzene	D1	**44**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
o-Xylene	D1	**11**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
p&m-Xylene	D1	**72**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
trans-1,2-Dichloroethene	D1	**69**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B
Vinyl chloride	D1	**8.6**	5.0	ug/L	1	B6D0712	04/28/16 17:34	04/28/16 17:34	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-07RE1

Location ID: DUPW-7	Collect Date: 04/20/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 10:35	Field Fluoride Result: None
Sampling Point: None	Matrix: Wtr-Ground	Field pH Result: None
QA Type: Field Dup/Rep		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:25*	*04/29/16 18:25*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*104*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:25*	*04/29/16 18:25*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:25*	*04/29/16 18:25*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:25*	*04/29/16 18:25*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 18:25*	*04/29/16 18:25*	*EPA 8260B*
1,2,4-Trimethylbenzene	D1	**250**	10	ug/L	1	B6D0765	04/29/16 18:25	04/29/16 18:25	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-08

Location ID: B33W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 11:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 17:57*	*04/28/16 17:57*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 17:57*	*04/28/16 17:57*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*104*	*70-130*	%	*1*	*B6D0712*	*04/28/16 17:57*	*04/28/16 17:57*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6D0712*	*04/28/16 17:57*	*04/28/16 17:57*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6D0712*	*04/28/16 17:57*	*04/28/16 17:57*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1-Dichloroethane	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-08

Location ID: B33W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 11:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Benzene	D1, Q4	**16**	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**100**	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
cis-1,3-Dichloropropene	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Hexachlorobutadiene	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-08

Location ID: B33W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 11:57
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**37**	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B
Vinyl chloride	D1, Q4	**23**	5.0	ug/L	1	B6D0712	04/28/16 17:57	04/28/16 17:57	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-09

Location ID: B33W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*99*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:20*	*04/28/16 18:20*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:20*	*04/28/16 18:20*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*102*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:20*	*04/28/16 18:20*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:20*	*04/28/16 18:20*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:20*	*04/28/16 18:20*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2-Dichloroethane	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-09

Location ID: B33W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Benzene	D1, Q4	**8.8**	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Bromodichloromethane	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**47**	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-09

Location ID: B33W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Tetrachloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**34**	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B
Vinyl chloride	D1, Q4	**16**	5.0	ug/L	1	B6D0712	04/28/16 18:20	04/28/16 18:20	EPA 8260B

Authorized by:

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-10

Location ID: B33W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:42*	*04/28/16 18:42*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:42*	*04/28/16 18:42*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:42*	*04/28/16 18:42*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:42*	*04/28/16 18:42*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 18:42*	*04/28/16 18:42*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-10

Location ID: B33W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Benzene	D1	**5.5**	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
cis-1,2-Dichloroethene	D1	**21**	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-10

Location ID: B33W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:25
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
trans-1,2-Dichloroethene	D1	**28**	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B
Vinyl chloride	D1	**14**	5.0	ug/L	1	B6D0712	04/28/16 18:42	04/28/16 18:42	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-11

Location ID: B33W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:05*	*04/28/16 19:05*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:05*	*04/28/16 19:05*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:05*	*04/28/16 19:05*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:05*	*04/28/16 19:05*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:05*	*04/28/16 19:05*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-11

Location ID: B33W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Benzene	D1	**6.4**	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-11

Location ID: B33W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
trans-1,2-Dichloroethene	D1	**66**	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B
Vinyl chloride	D1	**23**	5.0	ug/L	1	B6D0712	04/28/16 19:05	04/28/16 19:05	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-11RE1

Location ID: B33W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 17:04*	*05/02/16 17:04*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*102*	*70-130*	%	*1*	*B6E0011*	*05/02/16 17:04*	*05/02/16 17:04*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*104*	*70-130*	%	*1*	*B6E0011*	*05/02/16 17:04*	*05/02/16 17:04*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*100*	*70-130*	%	*1*	*B6E0011*	*05/02/16 17:04*	*05/02/16 17:04*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 17:04*	*05/02/16 17:04*	*EPA 8260B*
cis-1,2-Dichloroethene	D1, Q2, Q4	**930**	100	ug/L	1	B6E0011	05/02/16 17:04	05/02/16 17:04	EPA 8260B
Trichloroethene (TCE)	D1, Q2, Q4	**520**	100	ug/L	1	B6E0011	05/02/16 17:04	05/02/16 17:04	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-11RE2

Location ID: B33W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:33
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 16:41*	*05/02/16 16:41*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 16:41*	*05/02/16 16:41*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*104*	*70-130*	%	*1*	*B6E0011*	*05/02/16 16:41*	*05/02/16 16:41*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*99*	*70-130*	%	*1*	*B6E0011*	*05/02/16 16:41*	*05/02/16 16:41*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 16:41*	*05/02/16 16:41*	*EPA 8260B*
Tetrachloroethene	D1, Q2, Q4	**9400**	1000	ug/L	1	B6E0011	05/02/16 16:41	05/02/16 16:41	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-12

Location ID: B33W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:33*	*04/28/16 14:33*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:33*	*04/28/16 14:33*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:33*	*04/28/16 14:33*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:33*	*04/28/16 14:33*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 14:33*	*04/28/16 14:33*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, M1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1-Dichloroethene	D1, M1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-12

Location ID: B33W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Chloromethane	D1, M1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
cis-1,2-Dichloroethene	D1	**120**	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-12

Location ID: B33W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
sec-Butylbenzene	D1, M1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Trichloroethene (TCE)	D1	**130**	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Trichlorofluoromethane	D1, M1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6D0712	04/28/16 14:33	04/28/16 14:33	EPA 8260B

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-12RE1

Location ID: B33W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 12:45
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:18*	*04/28/16 15:18*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:18*	*04/28/16 15:18*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:18*	*04/28/16 15:18*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:18*	*04/28/16 15:18*	*EPA 8260B*
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 15:18*	*04/28/16 15:18*	*EPA 8260B*
Tetrachloroethene	D1	**12000**	1000	ug/L	1	B6D0712	04/28/16 15:18	04/28/16 15:18	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-13

Location ID: B33W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:28*	*04/28/16 19:28*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:28*	*04/28/16 19:28*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:28*	*04/28/16 19:28*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:28*	*04/28/16 19:28*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 19:28*	*04/28/16 19:28*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-13

Location ID: B33W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Benzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
cis-1,2-Dichloroethene	D1	**38**	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-13

Location ID: B33W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
trans-1,2-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Trichloroethene (TCE)	D1	**11**	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B
Vinyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:28	04/28/16 19:28	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-13RE1

Location ID: B33W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 13:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 17:49*	*05/02/16 17:49*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 17:49*	*05/02/16 17:49*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 17:49*	*05/02/16 17:49*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 17:49*	*05/02/16 17:49*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 17:49*	*05/02/16 17:49*	*EPA 8260B*
Tetrachloroethene	D1	**250**	10	ug/L	1	B6E0011	05/02/16 17:49	05/02/16 17:49	EPA 8260B

Authorized by:

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Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-14

Location ID: DUPW-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*100*	*70-130*	%	*1*	*B6D0712*	*04/28/16 19:51*	*04/28/16 19:51*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*103*	*70-130*	%	*1*	*B6D0712*	*04/28/16 19:51*	*04/28/16 19:51*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*103*	*70-130*	%	*1*	*B6D0712*	*04/28/16 19:51*	*04/28/16 19:51*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6D0712*	*04/28/16 19:51*	*04/28/16 19:51*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*101*	*70-130*	%	*1*	*B6D0712*	*04/28/16 19:51*	*04/28/16 19:51*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-14

Location ID: DUPW-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
2-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
4-Chlorotoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Acetone	D1, Q4	<	100	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Allyl chloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Benzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Bromobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Bromochloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Bromodichloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Bromoform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Bromomethane	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Carbon tetrachloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Chlorobenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Chlorodibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Chloroethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Chloroform	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Chloromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**89**	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Dibromomethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Dichlorodifluoromethane	Q4, D1	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Ethyl ether	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Ethylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Isopropylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-14

Location ID: DUPW-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	25	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Methylene chloride	D1, Q4	<	10	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Naphthalene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
n-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
n-Propylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
o-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
p&m-Xylene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
sec-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Styrene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
tert-Butylbenzene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	50	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Toluene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Trichloroethene (TCE)	D1, Q4	**15**	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B
Vinyl chloride	D1, Q4	<	5.0	ug/L	1	B6D0712	04/28/16 19:51	04/28/16 19:51	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-14RE1

Location ID: DUPW-8
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 13:10
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 18:12*	*05/02/16 18:12*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*100*	*70-130*	%	*1*	*B6E0011*	*05/02/16 18:12*	*05/02/16 18:12*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*105*	*70-130*	%	*1*	*B6E0011*	*05/02/16 18:12*	*05/02/16 18:12*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*99*	*70-130*	%	*1*	*B6E0011*	*05/02/16 18:12*	*05/02/16 18:12*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6E0011*	*05/02/16 18:12*	*05/02/16 18:12*	*EPA 8260B*
Tetrachloroethene	D1, Q4	**420**	25	ug/L	1	B6E0011	05/02/16 18:12	05/02/16 18:12	EPA 8260B

Authorized by:

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-15

Location ID: B44W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 20:13*	*04/28/16 20:13*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 20:13*	*04/28/16 20:13*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*105*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 20:13*	*04/28/16 20:13*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 20:13*	*04/28/16 20:13*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0712*	*04/28/16 20:13*	*04/28/16 20:13*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1,1-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1,2-Trichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1-Dichloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,1-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2,3-Trichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	25	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2-Dichloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,3-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,3-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
1,4-Dichlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-15

Location ID: B44W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
2-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
4-Chlorotoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Acetone	D1	<	100	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Allyl chloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Benzene	D1	**30**	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Bromobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Bromochloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Bromodichloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Bromoform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Bromomethane	D1	<	10	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Carbon tetrachloride	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Chlorobenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Chlorodibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Chloroethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Chloroform	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Chloromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
cis-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Dibromomethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Dichlorodifluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Dichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Ethyl ether	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Ethylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Hexachlorobutadiene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Isopropylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	50	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	25	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-15

Location ID: B44W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	10	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Methylene chloride	D1	<	10	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Naphthalene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
n-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
n-Propylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
o-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
p&m-Xylene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
p-Isopropyltoluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
sec-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Styrene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
tert-Butylbenzene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Tetrachloroethene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Tetrahydrofuran (THF)	D1	<	50	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Toluene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
trans-1,2-Dichloroethene	D1	**64**	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
trans-1,3-Dichloropropene	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Trichloroethene (TCE)	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Trichlorofluoromethane	D1	<	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B
Vinyl chloride	D1	**120**	5.0	ug/L	1	B6D0712	04/28/16 20:13	04/28/16 20:13	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-15RE1

Location ID: B44W-6670
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:30
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:34*	*05/02/16 18:34*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:34*	*05/02/16 18:34*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:34*	*05/02/16 18:34*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:34*	*05/02/16 18:34*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:34*	*05/02/16 18:34*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**750**	25	ug/L	1	B6E0011	05/02/16 18:34	05/02/16 18:34	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-16

Location ID: B44W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:41
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:57*	*05/02/16 18:57*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:57*	*05/02/16 18:57*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:57*	*05/02/16 18:57*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:57*	*05/02/16 18:57*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 18:57*	*05/02/16 18:57*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-16

Location ID: B44W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:41
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Benzene	D1	**26**	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Bromomethane	D1	<	20	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
cis-1,2-Dichloroethene	D1	**420**	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Ethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Isopropylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-16

Location ID: B44W-6266
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:41
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Naphthalene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
n-Propylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
o-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
p&m-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Tetrachloroethene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Toluene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
trans-1,2-Dichloroethene	D1	**52**	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Trichloroethene (TCE)	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B
Vinyl chloride	D1	**94**	10	ug/L	1	B6E0011	05/02/16 18:57	05/02/16 18:57	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-17

Location ID: B44W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 19:19*	*05/02/16 19:19*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 19:19*	*05/02/16 19:19*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*104*	*70-130*	%	*1*	*B6E0011*	*05/02/16 19:19*	*05/02/16 19:19*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*99*	*70-130*	%	*1*	*B6E0011*	*05/02/16 19:19*	*05/02/16 19:19*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6E0011*	*05/02/16 19:19*	*05/02/16 19:19*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2,4-Trimethylbenzene	Q4, D1	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1, Q4	<	50	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
1,4-Dichlorobenzene	Q4, D1	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-17

Location ID: B44W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
2-Chlorotoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
4-Chlorotoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Acetone	D1, Q4	<	200	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Allyl chloride	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Benzene	D1, Q4	**19**	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Bromobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Bromochloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Bromodichloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Bromoform	Q4, D1	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Bromomethane	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Carbon tetrachloride	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Chlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Chlorodibromomethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Chloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Chloroform	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Chloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**300**	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Dibromomethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Ethyl ether	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Ethylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Isopropylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	100	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-17

Location ID: B44W-5862
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 14:50
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	50	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Methylene chloride	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Naphthalene	Q4, D1	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
n-Butylbenzene	Q4, D1	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
n-Propylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
o-Xylene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
p&m-Xylene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
sec-Butylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Styrene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
tert-Butylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Tetrachloroethene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	100	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Toluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	**41**	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Trichloroethene (TCE)	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B
Vinyl chloride	D1, Q4	**73**	10	ug/L	1	B6E0011	05/02/16 19:19	05/02/16 19:19	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-18

Location ID: B44W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 19:42*	*05/02/16 19:42*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 19:42*	*05/02/16 19:42*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 19:42*	*05/02/16 19:42*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 19:42*	*05/02/16 19:42*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 19:42*	*05/02/16 19:42*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-18

Location ID: B44W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Benzene	D1	**11**	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Bromomethane	D1	<	20	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Ethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Isopropylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-18

Location ID: B44W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Naphthalene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
n-Propylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
o-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
p&m-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Toluene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
trans-1,2-Dichloroethene	D1	**74**	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B
Vinyl chloride	D1	**48**	10	ug/L	1	B6E0011	05/02/16 19:42	05/02/16 19:42	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-18RE1

Location ID: B44W-5357
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:00
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6E0102*	*05/04/16 12:21*	*05/04/16 12:21*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6E0102*	*05/04/16 12:21*	*05/04/16 12:21*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6E0102*	*05/04/16 12:21*	*05/04/16 12:21*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6E0102*	*05/04/16 12:21*	*05/04/16 12:21*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6E0102*	*05/04/16 12:21*	*05/04/16 12:21*	*EPA 8260B*
cis-1,2-Dichloroethene	D1	**2700**	100	ug/L	1	B6E0102	05/04/16 12:21	05/04/16 12:21	EPA 8260B
Tetrachloroethene	D1	**1900**	100	ug/L	1	B6E0102	05/04/16 12:21	05/04/16 12:21	EPA 8260B
Trichloroethene (TCE)	D1	**1100**	100	ug/L	1	B6E0102	05/04/16 12:21	05/04/16 12:21	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-19

Location ID: B44W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:06
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:54*	*04/29/16 16:54*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:54*	*04/29/16 16:54*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:54*	*04/29/16 16:54*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:54*	*04/29/16 16:54*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:54*	*04/29/16 16:54*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1,1-Trichloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1,2-Trichloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1-Dichloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1-Dichloroethene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,1-Dichloropropene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2,3-Trichloropropane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	500	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2-Dichlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2-Dichloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,2-Dichloropropane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,3-Dichlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,3-Dichloropropane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
1,4-Dichlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-19

Location ID: B44W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:06
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
2-Chlorotoluene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
4-Chlorotoluene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Acetone	D1	<	2000	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Allyl chloride	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Benzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Bromobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Bromochloromethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Bromodichloromethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Bromoform	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Bromomethane	D1	<	200	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Carbon tetrachloride	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Chlorobenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Chlorodibromomethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Chloroethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Chloroform	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Chloromethane	D1, M1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
cis-1,2-Dichloroethene	D1	**120**	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
cis-1,3-Dichloropropene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Dibromomethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Dichlorodifluoromethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Dichlorofluoromethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Ethyl ether	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Ethylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Hexachlorobutadiene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Isopropylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	1000	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-19

Location ID: B44W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:06
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	500	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	200	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Methylene chloride	D1	<	200	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Naphthalene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
n-Butylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
n-Propylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
o-Xylene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
p&m-Xylene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
p-Isopropyltoluene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
sec-Butylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Styrene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
tert-Butylbenzene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Tetrahydrofuran (THF)	D1	<	1000	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Toluene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
trans-1,2-Dichloroethene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
trans-1,3-Dichloropropene	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Trichloroethene (TCE)	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Trichlorofluoromethane	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B
Vinyl chloride	D1	<	100	ug/L	1	B6D0765	04/29/16 16:54	04/29/16 16:54	EPA 8260B

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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-19RE1

Location ID: B44W-4852
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:06
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Receiving Comments: MS/MSD

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 17:39*	*04/29/16 17:39*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 17:39*	*04/29/16 17:39*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 17:39*	*04/29/16 17:39*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 17:39*	*04/29/16 17:39*	*EPA 8260B*
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 17:39*	*04/29/16 17:39*	*EPA 8260B*
Tetrachloroethene	D1	**4200**	1000	ug/L	1	B6D0765	04/29/16 17:39	04/29/16 17:39	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-20

Location ID: B44W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 20:05*	*05/02/16 20:05*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 20:05*	*05/02/16 20:05*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*105*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 20:05*	*05/02/16 20:05*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 20:05*	*05/02/16 20:05*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6E0011*	*05/02/16 20:05*	*05/02/16 20:05*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1,1-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1,2,2-Tetrachloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1,2-Trichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1-Dichloroethene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,1-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2,3-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2,3-Trichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2,4-Trichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2,4-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	D1	<	50	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2-Dibromoethane (EDB)	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2-Dichloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,3,5-Trimethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,3-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,3-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
1,4-Dichlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B

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Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-20

Location ID: B44W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
2-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
4-Chlorotoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Acetone	D1	<	200	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Allyl chloride	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Benzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Bromobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Bromochloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Bromodichloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Bromoform	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Bromomethane	D1	<	20	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Carbon tetrachloride	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Chlorobenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Chlorodibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Chloroethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Chloroform	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Chloromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
cis-1,2-Dichloroethene	D1	**61**	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
cis-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Dibromomethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Dichlorodifluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Dichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Ethyl ether	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Ethylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Hexachlorobutadiene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Isopropylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Methyl ethyl ketone (MEK)	D1	<	100	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-20

Location ID: B44W-4347
Field Name: None
Sampling Point: None
QA Type: None

Collect Date: 04/20/16
Collect Time: 15:20
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1	<	50	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1	<	20	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Methylene chloride	D1	<	20	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Naphthalene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
n-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
n-Propylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
o-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
p&m-Xylene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
p-Isopropyltoluene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
sec-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Styrene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
tert-Butylbenzene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Tetrachloroethene	D1	**230**	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Tetrahydrofuran (THF)	D1	<	100	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Toluene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
trans-1,2-Dichloroethene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
trans-1,3-Dichloropropene	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Trichloroethene (TCE)	D1	**26**	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Trichlorofluoromethane	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B
Vinyl chloride	D1	<	10	ug/L	1	B6E0011	05/02/16 20:05	05/02/16 20:05	EPA 8260B

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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-21

Location ID: DUPW-9
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 15:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4	Q4	*101*	*70-130*	%	*1*	*B6E0011*	*05/02/16 20:27*	*05/02/16 20:27*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4	Q4	*99*	*70-130*	%	*1*	*B6E0011*	*05/02/16 20:27*	*05/02/16 20:27*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene	Q4	*105*	*70-130*	%	*1*	*B6E0011*	*05/02/16 20:27*	*05/02/16 20:27*	*EPA 8260B*
Surrogate: Dibromofluoromethane	Q4	*98*	*70-130*	%	*1*	*B6E0011*	*05/02/16 20:27*	*05/02/16 20:27*	*EPA 8260B*
Surrogate: Toluene-d8	Q4	*100*	*70-130*	%	*1*	*B6E0011*	*05/02/16 20:27*	*05/02/16 20:27*	*EPA 8260B*
1,1,1,2-Tetrachloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1,1-Trichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1,2,2-Tetrachloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1,2-Trichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1,2-Trichlorotrifluoroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1-Dichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1-Dichloroethene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,1-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2,3-Trichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2,3-Trichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2,4-Trichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2,4-Trimethylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Q4, D1	<	50	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2-Dibromoethane (EDB)	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2-Dichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2-Dichloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,2-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,3,5-Trimethylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,3-Dichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,3-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
1,4-Dichlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B

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Paul Moyer, Environmental Laboratory Manager
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Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-21

Location ID: DUPW-9
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 15:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
2-Chlorotoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
4-Chlorotoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Acetone	D1, Q4	<	200	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Allyl chloride	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Benzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Bromobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Bromochloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Bromodichloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Bromoform	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Bromomethane	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Carbon tetrachloride	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Chlorobenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Chlorodibromomethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Chloroethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Chloroform	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Chloromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
cis-1,2-Dichloroethene	D1, Q4	**70**	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
cis-1,3-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Dibromomethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Dichlorodifluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Dichlorofluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Ethyl ether	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Ethylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Hexachlorobutadiene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Isopropylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Methyl ethyl ketone (MEK)	D1, Q4	<	100	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-21

Location ID: DUPW-9
Field Name: None
Sampling Point: None
QA Type: Field Dup/Rep

Collect Date: 04/20/16
Collect Time: 15:35
Matrix: Wtr-Ground

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)	D1, Q4	<	50	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Methyl tertiary butyl ether (MTBE)	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Methylene chloride	D1, Q4	<	20	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Naphthalene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
n-Butylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
n-Propylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
o-Xylene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
p&m-Xylene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
p-Isopropyltoluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
sec-Butylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Styrene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
tert-Butylbenzene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Tetrachloroethene	D1, Q4	**290**	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Tetrahydrofuran (THF)	D1, Q4	<	100	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Toluene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
trans-1,2-Dichloroethene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
trans-1,3-Dichloropropene	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Trichloroethene (TCE)	D1, Q4	**32**	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Trichlorofluoromethane	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B
Vinyl chloride	D1, Q4	<	10	ug/L	1	B6E0011	05/02/16 20:27	05/02/16 20:27	EPA 8260B

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Public Health Laboratory
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St. Paul, MN 55164-0899
651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-22

Location ID: TRIP BLANK
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 04/20/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:32*	*04/29/16 16:32*	*EPA 8260B*
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:32*	*04/29/16 16:32*	*EPA 8260B*
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:32*	*04/29/16 16:32*	*EPA 8260B*
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:32*	*04/29/16 16:32*	*EPA 8260B*
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*1*	*B6D0765*	*04/29/16 16:32*	*04/29/16 16:32*	*EPA 8260B*
1,1,1,2-Tetrachloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1,1-Trichloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1,2,2-Tetrachloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1,2-Trichloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1-Dichloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1-Dichloroethene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,1-Dichloropropene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2,3-Trichlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2,3-Trichloropropane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2,4-Trichlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2,4-Trimethylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2-Dibromoethane (EDB)		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2-Dichlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2-Dichloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,2-Dichloropropane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,3,5-Trimethylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,3-Dichlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,3-Dichloropropane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
1,4-Dichlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B

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Environmental Laboratory Section
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651-201-5300

Final Report
Analytical Results

Program Code: PL
Program Name: Metro MERLA-SF
Collected By: Melissa Meeuwsen
Collector ID: None

Project ID: PRJ07955
Facility Name/ID: SR377
City: Saint Louis Park Investigation FY16
Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-22

Location ID: TRIP BLANK
Field Name: None
Sampling Point: None
QA Type: Trip Blank

Collect Date: 04/20/16
Collect Time: 7:00
Matrix: QC-BLANK

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2,2-Dichloropropane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
2-Chlorotoluene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
4-Chlorotoluene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Acetone		<	20	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Allyl chloride		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Benzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Bromobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Bromochloromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Bromodichloromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Bromoform		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Bromomethane		<	2.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Carbon tetrachloride		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Chlorobenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Chlorodibromomethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Chloroethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Chloroform		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Chloromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
cis-1,2-Dichloroethene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
cis-1,3-Dichloropropene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Dibromomethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Dichlorodifluoromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Dichlorofluoromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Ethyl ether		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Ethylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Hexachlorobutadiene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Isopropylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Methyl ethyl ketone (MEK)		<	10	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B

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Final Report
Analytical Results

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

MDH Sample Number: 16D1374-22

Location ID: TRIP BLANK	Collect Date: 04/20/16	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 7:00	Field Fluoride Result: None
Sampling Point: None	Matrix: QC-BLANK	Field pH Result: None
QA Type: Trip Blank		Field PO_4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Methylene chloride		<	2.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Naphthalene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
n-Butylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
n-Propylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
o-Xylene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
p&m-Xylene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
p-Isopropyltoluene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
sec-Butylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Styrene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
tert-Butylbenzene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Tetrachloroethene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Tetrahydrofuran (THF)		<	10	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Toluene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
trans-1,2-Dichloroethene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
trans-1,3-Dichloropropene		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Trichloroethene (TCE)		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Trichlorofluoromethane		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B
Vinyl chloride		<	1.0	ug/L	1	B6D0765	04/29/16 16:32	04/29/16 16:32	EPA 8260B

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Batch Summary

Samples in Batch: B6D0712 - EPA 5030B Preparation

16D1374-01	16D1374-02	16D1374-03	16D1374-04	16D1374-05	16D1374-06	16D1374-07
16D1374-08	16D1374-09	16D1374-10	16D1374-11	16D1374-12	16D1374-12RE1	16D1374-13
16D1374-14	16D1374-15					

Samples in Batch: B6D0765 - EPA 5030B Preparation

16D1374-06RE1	16D1374-07RE1	16D1374-19	16D1374-19RE1	16D1374-22

Samples in Batch: B6E0011 - EPA 5030B Preparation

16D1374-11RE1	16D1374-11RE2	16D1374-13RE1	16D1374-14RE1	16D1374-15RE1	16D1374-16	16D1374-17
16D1374-18	16D1374-20	16D1374-21				

Samples in Batch: B6E0102 - EPA 5030B Preparation

16D1374-18RE1

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Blank (B6D0712-BLK1) **Prepared: 04/28/16 13:48 Analyzed: 04/28/16 13:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Blank (B6D0712-BLK1) **Prepared: 04/28/16 13:48 Analyzed: 04/28/16 13:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Blank (B6D0712-BLK1) **Prepared: 04/28/16 13:48 Analyzed: 04/28/16 13:48**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6D0712-BS1) **Prepared: 04/28/16 11:06 Analyzed: 04/28/16 11:06**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*101*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		9.8	1.0	ug/L	10		98	70-130		
1,1,2,2-Tetrachloroethane		9.8	1.0	ug/L	10		98	70-130		
1,1,2-Trichloroethane		9.7	1.0	ug/L	10		97	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		101	70-130		
1,1-Dichloroethane		9.7	1.0	ug/L	10		97	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		102	70-130		
1,1-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichloropropane		9.8	1.0	ug/L	10		98	70-130		
1,2,4-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,4-Trimethylbenzene		9.8	1.0	ug/L	10		98	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		9.6	5.0	ug/L	10		96	70-130		
1,2-Dibromoethane (EDB)		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2-Dichloroethane		9.8	1.0	ug/L	10		98	70-130		
1,2-Dichloropropane		9.7	1.0	ug/L	10		97	70-130		
1,3,5-Trimethylbenzene		9.8	1.0	ug/L	10		98	70-130		
1,3-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,3-Dichloropropane		9.7	1.0	ug/L	10		97	70-130		
1,4-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
2,2-Dichloropropane		9.9	1.0	ug/L	10		99	70-130		
2-Chlorotoluene		9.8	1.0	ug/L	10		98	70-130		

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

LCS (B6D0712-BS1) **Prepared: 04/28/16 11:06 Analyzed: 04/28/16 11:06**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		9.8	1.0	ug/L	10		98	70-130		
Acetone		92	20	ug/L	100		92	70-130		
Allyl chloride		10	1.0	ug/L	10		100	70-130		
Benzene		9.6	1.0	ug/L	10		96	70-130		
Bromobenzene		9.5	1.0	ug/L	10		95	70-130		
Bromochloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromodichloromethane		9.5	1.0	ug/L	10		95	70-130		
Bromoform		9.3	1.0	ug/L	10		93	70-130		
Bromomethane		10	2.0	ug/L	10		104	70-130		
Carbon tetrachloride		9.7	1.0	ug/L	10		97	70-130		
Chlorobenzene		9.5	1.0	ug/L	10		95	70-130		
Chlorodibromomethane		9.7	1.0	ug/L	10		97	70-130		
Chloroethane		9.4	1.0	ug/L	10		94	70-130		
Chloroform		9.6	1.0	ug/L	10		96	70-130		
Chloromethane		12	1.0	ug/L	10		117	70-130		
cis-1,2-Dichloroethene		9.7	1.0	ug/L	10		97	70-130		
cis-1,3-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
Dibromomethane		9.7	1.0	ug/L	10		97	70-130		
Dichlorodifluoromethane		9.4	1.0	ug/L	10		94	70-130		
Dichlorofluoromethane		10	1.0	ug/L	10		100	70-130		
Ethyl ether		9.7	1.0	ug/L	10		97	70-130		
Ethylbenzene		9.8	1.0	ug/L	10		98	70-130		
Hexachlorobutadiene		9.1	1.0	ug/L	10		91	70-130		
Isopropylbenzene		9.8	1.0	ug/L	10		98	70-130		
Methyl ethyl ketone (MEK)		48	10	ug/L	50		97	70-130		
Methyl isobutyl ketone (MIBK)		50	5.0	ug/L	50		99	70-130		
Methyl tertiary butyl ether (MTBE)		9.8	2.0	ug/L	10		98	70-130		
Methylene chloride		9.9	2.0	ug/L	10		99	70-130		
Naphthalene		9.8	1.0	ug/L	10		98	70-130		
n-Butylbenzene		10	1.0	ug/L	10		100	70-130		
n-Propylbenzene		9.8	1.0	ug/L	10		98	70-130		
o-Xylene		9.7	1.0	ug/L	10		97	70-130		
p&m-Xylene		9.6	1.0	ug/L	10		96	70-130		
p-Isopropyltoluene		10	1.0	ug/L	10		100	70-130		
sec-Butylbenzene		10	1.0	ug/L	10		101	70-130		

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Final Report
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Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

LCS (B6D0712-BS1) **Prepared: 04/28/16 11:06 Analyzed: 04/28/16 11:06**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.8	1.0	ug/L	10		98	70-130		
tert-Butylbenzene		9.8	1.0	ug/L	10		98	70-130		
Tetrachloroethene		10	1.0	ug/L	10		100	70-130		
Tetrahydrofuran (THF)		95	10	ug/L	100		95	70-130		
Toluene		9.7	1.0	ug/L	10		97	70-130		
trans-1,2-Dichloroethene		9.7	1.0	ug/L	10		97	70-130		
trans-1,3-Dichloropropene		9.7	1.0	ug/L	10		97	70-130		
Trichloroethene (TCE)		9.6	1.0	ug/L	10		96	70-130		
Trichlorofluoromethane		10	1.0	ug/L	10		103	70-130		
Vinyl chloride		9.7	1.0	ug/L	10		97	70-130		

Matrix Spike (B6D0712-MS1) Source: 16D1374-05 **Prepared: 04/28/16 11:29 Analyzed: 04/28/16 11:29**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		56	5.0	ug/L	50	<	112	70-130		
1,1,1-Trichloroethane		60	5.0	ug/L	50	<	120	70-130		
1,1,2,2-Tetrachloroethane		57	5.0	ug/L	50	<	114	70-130		
1,1,2-Trichloroethane		58	5.0	ug/L	50	<	117	70-130		
1,1,2-Trichlorotrifluoroethane		63	5.0	ug/L	50	<	127	70-130		
1,1-Dichloroethane		60	5.0	ug/L	50	<	119	70-130		
1,1-Dichloroethene		65	5.0	ug/L	50	<	129	70-130		
1,1-Dichloropropene		61	5.0	ug/L	50	<	121	70-130		
1,2,3-Trichlorobenzene		58	5.0	ug/L	50	<	117	70-130		
1,2,3-Trichloropropane		57	5.0	ug/L	50	<	115	70-130		
1,2,4-Trichlorobenzene		59	5.0	ug/L	50	<	119	70-130		
1,2,4-Trimethylbenzene		59	5.0	ug/L	50	<	118	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		56	25	ug/L	50	<	112	70-130		
1,2-Dibromoethane (EDB)		57	5.0	ug/L	50	<	113	70-130		
1,2-Dichlorobenzene		58	5.0	ug/L	50	<	117	70-130		
1,2-Dichloroethane		59	5.0	ug/L	50	<	118	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike (B6D0712-MS1) Source: 16D1374-05 **Prepared: 04/28/16 11:29 Analyzed: 04/28/16 11:29**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane		58	5.0	ug/L	50	<	116	70-130		
1,3,5-Trimethylbenzene		60	5.0	ug/L	50	<	120	70-130		
1,3-Dichlorobenzene		58	5.0	ug/L	50	<	115	70-130		
1,3-Dichloropropane		58	5.0	ug/L	50	<	116	70-130		
1,4-Dichlorobenzene		58	5.0	ug/L	50	<	116	70-130		
2,2-Dichloropropane		61	5.0	ug/L	50	<	122	70-130		
2-Chlorotoluene		59	5.0	ug/L	50	<	118	70-130		
4-Chlorotoluene		60	5.0	ug/L	50	<	120	70-130		
Acetone		600	100	ug/L	500	<	115	70-130		
Allyl chloride		60	5.0	ug/L	50	<	119	70-130		
Benzene		61	5.0	ug/L	50	<	117	70-130		
Bromobenzene		57	5.0	ug/L	50	<	115	70-130		
Bromochloromethane		55	5.0	ug/L	50	<	110	70-130		
Bromodichloromethane		56	5.0	ug/L	50	<	113	70-130		
Bromoform		54	5.0	ug/L	50	<	108	70-130		
Bromomethane		53	10	ug/L	50	<	99	70-130		
Carbon tetrachloride		60	5.0	ug/L	50	<	120	70-130		
Chlorobenzene		57	5.0	ug/L	50	<	114	70-130		
Chlorodibromomethane		58	5.0	ug/L	50	<	115	70-130		
Chloroethane		54	5.0	ug/L	50	<	108	70-130		
Chloroform		58	5.0	ug/L	50	<	117	70-130		
Chloromethane	M1	68	5.0	ug/L	50	<	135	70-130		
cis-1,2-Dichloroethene		130	5.0	ug/L	50	73	113	70-130		
cis-1,3-Dichloropropene		58	5.0	ug/L	50	<	116	70-130		
Dibromomethane		56	5.0	ug/L	50	<	113	70-130		
Dichlorodifluoromethane		59	5.0	ug/L	50	<	118	70-130		
Dichlorofluoromethane		61	5.0	ug/L	50	<	121	70-130		
Ethyl ether		58	5.0	ug/L	50	<	116	70-130		
Ethylbenzene		60	5.0	ug/L	50	<	120	70-130		
Hexachlorobutadiene		56	5.0	ug/L	50	<	104	70-130		
Isopropylbenzene		60	5.0	ug/L	50	<	120	70-130		
Methyl ethyl ketone (MEK)		280	50	ug/L	250	<	113	70-130		
Methyl isobutyl ketone (MIBK)		290	25	ug/L	250	<	115	70-130		
Methyl tertiary butyl ether (MTBE)		58	10	ug/L	50	<	117	70-130		
Methylene chloride		59	10	ug/L	50	<	118	70-130		

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Public Health Laboratory
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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike (B6D0712-MS1) Source: 16D1374-05 **Prepared: 04/28/16 11:29 Analyzed: 04/28/16 11:29**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene		59	5.0	ug/L	50	<	117	70-130		
n-Butylbenzene		63	5.0	ug/L	50	<	126	70-130		
n-Propylbenzene		62	5.0	ug/L	50	<	123	70-130		
o-Xylene		58	5.0	ug/L	50	<	117	70-130		
p&m-Xylene		59	5.0	ug/L	50	<	119	70-130		
p-Isopropyltoluene		61	5.0	ug/L	50	<	123	70-130		
sec-Butylbenzene		63	5.0	ug/L	50	<	125	70-130		
Styrene		60	5.0	ug/L	50	<	119	70-130		
tert-Butylbenzene		60	5.0	ug/L	50	<	120	70-130		
Tetrachloroethene		62	5.0	ug/L	50	<	124	70-130		
Tetrahydrofuran (THF)		560	50	ug/L	500	<	112	70-130		
Toluene		59	5.0	ug/L	50	<	118	70-130		
trans-1,2-Dichloroethene		170	5.0	ug/L	50	110	118	70-130		
trans-1,3-Dichloropropene		58	5.0	ug/L	50	<	116	70-130		
Trichloroethene (TCE)		58	5.0	ug/L	50	<	115	70-130		
Trichlorofluoromethane		65	5.0	ug/L	50	<	130	70-130		
Vinyl chloride		80	5.0	ug/L	50	21	117	70-130		

Matrix Spike (B6D0712-MS2) Source: 16D1374-12 **Prepared: 04/28/16 13:03 Analyzed: 04/28/16 13:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*101*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		1100	100	ug/L	1,000	<	108	70-130		
1,1,1-Trichloroethane		1200	100	ug/L	1,000	<	118	70-130		
1,1,2,2-Tetrachloroethane		1100	100	ug/L	1,000	<	108	70-130		
1,1,2-Trichloroethane		1100	100	ug/L	1,000	<	108	70-130		
1,1,2-Trichlorotrifluoroethane		1200	100	ug/L	1,000	<	121	70-130		
1,1-Dichloroethane		1100	100	ug/L	1,000	<	114	70-130		
1,1-Dichloroethene		1200	100	ug/L	1,000	<	120	70-130		
1,1-Dichloropropene		1200	100	ug/L	1,000	<	118	70-130		
1,2,3-Trichlorobenzene		1100	100	ug/L	1,000	<	108	70-130		
1,2,3-Trichloropropane		1100	100	ug/L	1,000	<	108	70-130		

FINAL REPORT Report ID: 05112016131841

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike (B6D0712-MS2) Source: 16D1374-12 **Prepared: 04/28/16 13:03 Analyzed: 04/28/16 13:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene		1100	100	ug/L	1,000	<	112	70-130		
1,2,4-Trimethylbenzene		1100	100	ug/L	1,000	<	114	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		1000	500	ug/L	1,000	<	102	70-130		
1,2-Dibromoethane (EDB)		1100	100	ug/L	1,000	<	106	70-130		
1,2-Dichlorobenzene		1100	100	ug/L	1,000	<	109	70-130		
1,2-Dichloroethane		1100	100	ug/L	1,000	<	110	70-130		
1,2-Dichloropropane		1100	100	ug/L	1,000	<	110	70-130		
1,3,5-Trimethylbenzene		1200	100	ug/L	1,000	<	116	70-130		
1,3-Dichlorobenzene		1100	100	ug/L	1,000	<	111	70-130		
1,3-Dichloropropane		1100	100	ug/L	1,000	<	110	70-130		
1,4-Dichlorobenzene		1100	100	ug/L	1,000	<	109	70-130		
2,2-Dichloropropane		1200	100	ug/L	1,000	<	118	70-130		
2-Chlorotoluene		1100	100	ug/L	1,000	<	114	70-130		
4-Chlorotoluene		1200	100	ug/L	1,000	<	115	70-130		
Acetone		11000	2000	ug/L	10,000	<	105	70-130		
Allyl chloride		1100	100	ug/L	1,000	<	113	70-130		
Benzene		1100	100	ug/L	1,000	<	113	70-130		
Bromobenzene		1100	100	ug/L	1,000	<	108	70-130		
Bromochloromethane		1100	100	ug/L	1,000	<	107	70-130		
Bromodichloromethane		1100	100	ug/L	1,000	<	111	70-130		
Bromoform		1000	100	ug/L	1,000	<	101	70-130		
Bromomethane		1200	200	ug/L	1,000	<	116	70-130		
Carbon tetrachloride		1200	100	ug/L	1,000	<	117	70-130		
Chlorobenzene		1100	100	ug/L	1,000	<	110	70-130		
Chlorodibromomethane		1100	100	ug/L	1,000	<	108	70-130		
Chloroethane		1200	100	ug/L	1,000	<	116	70-130		
Chloroform		1100	100	ug/L	1,000	<	110	70-130		
Chloromethane	M1	1300	100	ug/L	1,000	<	130	70-130		
cis-1,2-Dichloroethene		1200	100	ug/L	1,000	120	110	70-130		
cis-1,3-Dichloropropene		1100	100	ug/L	1,000	<	110	70-130		
Dibromomethane		1100	100	ug/L	1,000	<	107	70-130		
Dichlorodifluoromethane		1000	100	ug/L	1,000	<	105	70-130		
Dichlorofluoromethane		1200	100	ug/L	1,000	<	117	70-130		
Ethyl ether		1000	100	ug/L	1,000	<	104	70-130		
Ethylbenzene		1200	100	ug/L	1,000	<	116	70-130		

FINAL REPORT

Report ID: 05112016131841

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike (B6D0712-MS2) Source: 16D1374-12 **Prepared: 04/28/16 13:03 Analyzed: 04/28/16 13:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobutadiene		1100	100	ug/L	1,000	<	99	70-130		
Isopropylbenzene		1200	100	ug/L	1,000	<	117	70-130		
Methyl ethyl ketone (MEK)		5400	1000	ug/L	5,000	<	109	70-130		
Methyl isobutyl ketone (MIBK)		5500	500	ug/L	5,000	<	110	70-130		
Methyl tertiary butyl ether (MTBE)		1100	200	ug/L	1,000	<	107	70-130		
Methylene chloride		1100	200	ug/L	1,000	<	109	70-130		
Naphthalene		1100	100	ug/L	1,000	<	108	70-130		
n-Butylbenzene		1200	100	ug/L	1,000	<	122	70-130		
n-Propylbenzene		1200	100	ug/L	1,000	<	119	70-130		
o-Xylene		1100	100	ug/L	1,000	<	114	70-130		
p&m-Xylene		1100	100	ug/L	1,000	<	113	70-130		
p-Isopropyltoluene		1200	100	ug/L	1,000	<	119	70-130		
sec-Butylbenzene		1200	100	ug/L	1,000	<	121	70-130		
Styrene		1100	100	ug/L	1,000	<	113	70-130		
tert-Butylbenzene		1200	100	ug/L	1,000	<	115	70-130		
Tetrachloroethene	E1	13000	100	ug/L	1,000	12000	80	70-130		
Tetrahydrofuran (THF)		11000	1000	ug/L	10,000	<	106	70-130		
Toluene		1100	100	ug/L	1,000	<	114	70-130		
trans-1,2-Dichloroethene		1200	100	ug/L	1,000	<	117	70-130		
trans-1,3-Dichloropropene		1100	100	ug/L	1,000	<	111	70-130		
Trichloroethene (TCE)		1300	100	ug/L	1,000	130	114	70-130		
Trichlorofluoromethane		1200	100	ug/L	1,000	<	118	70-130		
Vinyl chloride		1100	100	ug/L	1,000	<	113	70-130		

Matrix Spike Dup (B6D0712-MSD1) Source: 16D1374-05 **Prepared: 04/28/16 11:52 Analyzed: 04/28/16 11:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		54	5.0	ug/L	50	<	107	70-130	5	30
1,1,1-Trichloroethane		58	5.0	ug/L	50	<	116	70-130	4	30
1,1,2,2-Tetrachloroethane		53	5.0	ug/L	50	<	106	70-130	7	30
1,1,2-Trichloroethane		54	5.0	ug/L	50	<	108	70-130	8	30

FINAL REPORT

Report ID: 05112016131841

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike Dup (B6D0712-MSD1) Source: 16D1374-05 **Prepared: 04/28/16 11:52 Analyzed: 04/28/16 11:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane		58	5.0	ug/L	50	<	116	70-130	8	30
1,1-Dichloroethane		56	5.0	ug/L	50	<	112	70-130	6	30
1,1-Dichloroethene		59	5.0	ug/L	50	<	119	70-130	9	30
1,1-Dichloropropene		58	5.0	ug/L	50	<	116	70-130	5	30
1,2,3-Trichlorobenzene		55	5.0	ug/L	50	<	109	70-130	7	30
1,2,3-Trichloropropane		53	5.0	ug/L	50	<	106	70-130	8	30
1,2,4-Trichlorobenzene		55	5.0	ug/L	50	<	110	70-130	7	30
1,2,4-Trimethylbenzene		56	5.0	ug/L	50	<	113	70-130	5	30
1,2-Dibromo-3-chloropropane (DBCP)		52	25	ug/L	50	<	104	70-130	7	30
1,2-Dibromoethane (EDB)		51	5.0	ug/L	50	<	102	70-130	10	30
1,2-Dichlorobenzene		53	5.0	ug/L	50	<	107	70-130	9	30
1,2-Dichloroethane		54	5.0	ug/L	50	<	109	70-130	8	30
1,2-Dichloropropane		54	5.0	ug/L	50	<	108	70-130	7	30
1,3,5-Trimethylbenzene		57	5.0	ug/L	50	<	114	70-130	6	30
1,3-Dichlorobenzene		55	5.0	ug/L	50	<	111	70-130	4	30
1,3-Dichloropropane		52	5.0	ug/L	50	<	105	70-130	10	30
1,4-Dichlorobenzene		54	5.0	ug/L	50	<	109	70-130	6	30
2,2-Dichloropropane		59	5.0	ug/L	50	<	118	70-130	3	30
2-Chlorotoluene		56	5.0	ug/L	50	<	111	70-130	6	30
4-Chlorotoluene		56	5.0	ug/L	50	<	112	70-130	7	30
Acetone		510	100	ug/L	500	<	96	70-130	17	30
Allyl chloride		56	5.0	ug/L	50	<	112	70-130	6	30
Benzene		57	5.0	ug/L	50	<	109	70-130	7	30
Bromobenzene		54	5.0	ug/L	50	<	107	70-130	7	30
Bromochloromethane		52	5.0	ug/L	50	<	105	70-130	5	30
Bromodichloromethane		54	5.0	ug/L	50	<	107	70-130	5	30
Bromoform		50	5.0	ug/L	50	<	100	70-130	7	30
Bromomethane		63	10	ug/L	50	<	120	70-130	18	30
Carbon tetrachloride		58	5.0	ug/L	50	<	116	70-130	4	30
Chlorobenzene		54	5.0	ug/L	50	<	109	70-130	5	30
Chlorodibromomethane		54	5.0	ug/L	50	<	107	70-130	8	30
Chloroethane		54	5.0	ug/L	50	<	109	70-130	0.09	30
Chloroform		55	5.0	ug/L	50	<	110	70-130	6	30
Chloromethane		59	5.0	ug/L	50	<	118	70-130	14	30
cis-1,2-Dichloroethene		120	5.0	ug/L	50	73	103	70-130	4	30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike Dup (B6D0712-MSD1) Source: 16D1374-05 **Prepared: 04/28/16 11:52 Analyzed: 04/28/16 11:52**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
cis-1,3-Dichloropropene		54	5.0	ug/L	50	<	108	70-130	7	30
Dibromomethane		54	5.0	ug/L	50	<	107	70-130	5	30
Dichlorodifluoromethane		53	5.0	ug/L	50	<	106	70-130	11	30
Dichlorofluoromethane		56	5.0	ug/L	50	<	112	70-130	8	30
Ethyl ether		51	5.0	ug/L	50	<	102	70-130	12	30
Ethylbenzene		56	5.0	ug/L	50	<	113	70-130	7	30
Hexachlorobutadiene		54	5.0	ug/L	50	<	100	70-130	4	30
Isopropylbenzene		57	5.0	ug/L	50	<	114	70-130	6	30
Methyl ethyl ketone (MEK)		250	50	ug/L	250	<	101	70-130	11	30
Methyl isobutyl ketone (MIBK)		260	25	ug/L	250	<	105	70-130	9	30
Methyl tertiary butyl ether (MTBE)		53	10	ug/L	50	<	106	70-130	10	30
Methylene chloride		54	10	ug/L	50	<	109	70-130	8	30
Naphthalene		54	5.0	ug/L	50	<	107	70-130	9	30
n-Butylbenzene		60	5.0	ug/L	50	<	119	70-130	6	30
n-Propylbenzene		58	5.0	ug/L	50	<	116	70-130	6	30
o-Xylene		56	5.0	ug/L	50	<	111	70-130	5	30
p&m-Xylene		55	5.0	ug/L	50	<	110	70-130	7	30
p-Isopropyltoluene		58	5.0	ug/L	50	<	117	70-130	5	30
sec-Butylbenzene		60	5.0	ug/L	50	<	120	70-130	4	30
Styrene		55	5.0	ug/L	50	<	110	70-130	8	30
tert-Butylbenzene		57	5.0	ug/L	50	<	114	70-130	5	30
Tetrachloroethene		58	5.0	ug/L	50	<	117	70-130	6	30
Tetrahydrofuran (THF)		500	50	ug/L	500	<	100	70-130	11	30
Toluene		55	5.0	ug/L	50	<	111	70-130	6	30
trans-1,2-Dichloroethene		160	5.0	ug/L	50	110	107	70-130	3	30
trans-1,3-Dichloropropene		53	5.0	ug/L	50	<	106	70-130	9	30
Trichloroethene (TCE)		56	5.0	ug/L	50	<	112	70-130	3	30
Trichlorofluoromethane		58	5.0	ug/L	50	<	117	70-130	10	30
Vinyl chloride		75	5.0	ug/L	50	21	107	70-130	6	30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike Dup (B6D0712-MSD2) Source: 16D1374-12 **Prepared: 04/28/16 13:25 Analyzed: 04/28/16 13:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		1200	100	ug/L	1,000	<	118	70-130	9	30
1,1,1-Trichloroethane		1300	100	ug/L	1,000	<	127	70-130	8	30
1,1,2,2-Tetrachloroethane		1200	100	ug/L	1,000	<	117	70-130	8	30
1,1,2-Trichloroethane		1200	100	ug/L	1,000	<	119	70-130	9	30
1,1,2-Trichlorotrifluoroethane	M1	1300	100	ug/L	1,000	<	131	70-130	8	30
1,1-Dichloroethane		1200	100	ug/L	1,000	<	123	70-130	7	30
1,1-Dichloroethene	M1	1300	100	ug/L	1,000	<	131	70-130	9	30
1,1-Dichloropropene		1300	100	ug/L	1,000	<	127	70-130	7	30
1,2,3-Trichlorobenzene		1200	100	ug/L	1,000	<	120	70-130	11	30
1,2,3-Trichloropropane		1200	100	ug/L	1,000	<	116	70-130	7	30
1,2,4-Trichlorobenzene		1200	100	ug/L	1,000	<	120	70-130	7	30
1,2,4-Trimethylbenzene		1200	100	ug/L	1,000	<	122	70-130	7	30
1,2-Dibromo-3-chloropropane (DBCP)		1200	500	ug/L	1,000	<	117	70-130	14	30
1,2-Dibromoethane (EDB)		1200	100	ug/L	1,000	<	117	70-130	10	30
1,2-Dichlorobenzene		1200	100	ug/L	1,000	<	119	70-130	8	30
1,2-Dichloroethane		1200	100	ug/L	1,000	<	118	70-130	7	30
1,2-Dichloropropane		1200	100	ug/L	1,000	<	120	70-130	8	30
1,3,5-Trimethylbenzene		1200	100	ug/L	1,000	<	122	70-130	6	30
1,3-Dichlorobenzene		1200	100	ug/L	1,000	<	120	70-130	8	30
1,3-Dichloropropane		1200	100	ug/L	1,000	<	118	70-130	7	30
1,4-Dichlorobenzene		1200	100	ug/L	1,000	<	119	70-130	8	30
2,2-Dichloropropane		1300	100	ug/L	1,000	<	129	70-130	9	30
2-Chlorotoluene		1200	100	ug/L	1,000	<	124	70-130	9	30
4-Chlorotoluene		1200	100	ug/L	1,000	<	124	70-130	8	30
Acetone		12000	2000	ug/L	10,000	<	115	70-130	9	30
Allyl chloride		1300	100	ug/L	1,000	<	127	70-130	12	30
Benzene		1200	100	ug/L	1,000	<	123	70-130	8	30
Bromobenzene		1200	100	ug/L	1,000	<	117	70-130	8	30
Bromochloromethane		1200	100	ug/L	1,000	<	117	70-130	9	30
Bromodichloromethane		1200	100	ug/L	1,000	<	118	70-130	7	30

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike Dup (B6D0712-MSD2) Source: 16D1374-12 **Prepared: 04/28/16 13:25 Analyzed: 04/28/16 13:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		1100	100	ug/L	1,000	<	111	70-130	9	30
Bromomethane		1200	200	ug/L	1,000	<	119	70-130	3	30
Carbon tetrachloride		1300	100	ug/L	1,000	<	127	70-130	9	30
Chlorobenzene		1200	100	ug/L	1,000	<	120	70-130	8	30
Chlorodibromomethane		1200	100	ug/L	1,000	<	118	70-130	9	30
Chloroethane		1200	100	ug/L	1,000	<	119	70-130	2	30
Chloroform		1200	100	ug/L	1,000	<	122	70-130	10	30
Chloromethane	M1	1300	100	ug/L	1,000	<	134	70-130	3	30
cis-1,2-Dichloroethene		1300	100	ug/L	1,000	120	121	70-130	9	30
cis-1,3-Dichloropropene		1200	100	ug/L	1,000	<	120	70-130	9	30
Dibromomethane		1200	100	ug/L	1,000	<	116	70-130	8	30
Dichlorodifluoromethane		1200	100	ug/L	1,000	<	118	70-130	12	30
Dichlorofluoromethane		1300	100	ug/L	1,000	<	129	70-130	10	30
Ethyl ether		1200	100	ug/L	1,000	<	117	70-130	11	30
Ethylbenzene		1300	100	ug/L	1,000	<	126	70-130	8	30
Hexachlorobutadiene		1100	100	ug/L	1,000	<	108	70-130	8	30
Isopropylbenzene		1300	100	ug/L	1,000	<	125	70-130	7	30
Methyl ethyl ketone (MEK)		5900	1000	ug/L	5,000	<	118	70-130	8	30
Methyl isobutyl ketone (MIBK)		6000	500	ug/L	5,000	<	121	70-130	10	30
Methyl tertiary butyl ether (MTBE)		1200	200	ug/L	1,000	<	118	70-130	10	30
Methylene chloride		1200	200	ug/L	1,000	<	121	70-130	11	30
Naphthalene		1200	100	ug/L	1,000	<	119	70-130	10	30
n-Butylbenzene		1300	100	ug/L	1,000	<	128	70-130	5	30
n-Propylbenzene		1300	100	ug/L	1,000	<	128	70-130	7	30
o-Xylene		1200	100	ug/L	1,000	<	120	70-130	5	30
p&m-Xylene		1200	100	ug/L	1,000	<	120	70-130	5	30
p-Isopropyltoluene		1300	100	ug/L	1,000	<	128	70-130	7	30
sec-Butylbenzene	M1	1300	100	ug/L	1,000	<	132	70-130	8	30
Styrene		1200	100	ug/L	1,000	<	121	70-130	7	30
tert-Butylbenzene		1300	100	ug/L	1,000	<	126	70-130	9	30
Tetrachloroethene	E1	13000	100	ug/L	1,000	12000	120	70-130	3	30
Tetrahydrofuran (THF)		12000	1000	ug/L	10,000	<	116	70-130	9	30
Toluene		1200	100	ug/L	1,000	<	122	70-130	7	30
trans-1,2-Dichloroethene		1300	100	ug/L	1,000	<	129	70-130	9	30
trans-1,3-Dichloropropene		1200	100	ug/L	1,000	<	118	70-130	6	30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0712 - EPA 5030B Preparation

Matrix Spike Dup (B6D0712-MSD2) Source: 16D1374-12 **Prepared: 04/28/16 13:25 Analyzed: 04/28/16 13:25**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		1400	100	ug/L	1,000	130	122	70-130	7	30
Trichlorofluoromethane	M1	1300	100	ug/L	1,000	<	130	70-130	10	30
Vinyl chloride		1200	100	ug/L	1,000	<	123	70-130	8	30

Batch B6D0765 - EPA 5030B Preparation

Blank (B6D0765-BLK1) **Prepared: 04/29/16 16:09 Analyzed: 04/29/16 16:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Blank (B6D0765-BLK1) **Prepared: 04/29/16 16:09 Analyzed: 04/29/16 16:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Blank (B6D0765-BLK1) **Prepared: 04/29/16 16:09 Analyzed: 04/29/16 16:09**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6D0765-BS1) **Prepared: 04/29/16 14:13 Analyzed: 04/29/16 14:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.6	1.0	ug/L	10		96	70-130		
1,1,1-Trichloroethane		10	1.0	ug/L	10		104	70-130		
1,1,2,2-Tetrachloroethane		10	1.0	ug/L	10		104	70-130		
1,1,2-Trichloroethane		10	1.0	ug/L	10		101	70-130		
1,1,2-Trichlorotrifluoroethane		10	1.0	ug/L	10		105	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		102	70-130		
1,1-Dichloropropene		10	1.0	ug/L	10		103	70-130		
1,2,3-Trichlorobenzene		10	1.0	ug/L	10		102	70-130		
1,2,3-Trichloropropane		10	1.0	ug/L	10		103	70-130		
1,2,4-Trichlorobenzene		10	1.0	ug/L	10		102	70-130		
1,2,4-Trimethylbenzene		10	1.0	ug/L	10		102	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		10	5.0	ug/L	10		102	70-130		
1,2-Dibromoethane (EDB)		9.8	1.0	ug/L	10		98	70-130		

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Final Report
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Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

LCS (B6D0765-BS1) **Prepared: 04/29/16 14:13 Analyzed: 04/29/16 14:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichlorobenzene		10	1.0	ug/L	10		100	70-130		
1,2-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,2-Dichloropropane		9.9	1.0	ug/L	10		99	70-130		
1,3,5-Trimethylbenzene		10	1.0	ug/L	10		103	70-130		
1,3-Dichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,3-Dichloropropane		10	1.0	ug/L	10		102	70-130		
1,4-Dichlorobenzene		10	1.0	ug/L	10		100	70-130		
2,2-Dichloropropane		10	1.0	ug/L	10		102	70-130		
2-Chlorotoluene		10	1.0	ug/L	10		102	70-130		
4-Chlorotoluene		10	1.0	ug/L	10		104	70-130		
Acetone		110	20	ug/L	100		107	70-130		
Allyl chloride		9.9	1.0	ug/L	10		99	70-130		
Benzene		10	1.0	ug/L	10		100	70-130		
Bromobenzene		9.7	1.0	ug/L	10		97	70-130		
Bromochloromethane		9.7	1.0	ug/L	10		97	70-130		
Bromodichloromethane		9.9	1.0	ug/L	10		99	70-130		
Bromoform		9.4	1.0	ug/L	10		94	70-130		
Bromomethane		10	2.0	ug/L	10		100	70-130		
Carbon tetrachloride		10	1.0	ug/L	10		101	70-130		
Chlorobenzene		9.8	1.0	ug/L	10		98	70-130		
Chlorodibromomethane		9.8	1.0	ug/L	10		98	70-130		
Chloroethane		9.4	1.0	ug/L	10		94	70-130		
Chloroform		9.9	1.0	ug/L	10		99	70-130		
Chloromethane		11	1.0	ug/L	10		111	70-130		
cis-1,2-Dichloroethene		10	1.0	ug/L	10		100	70-130		
cis-1,3-Dichloropropene		10	1.0	ug/L	10		100	70-130		
Dibromomethane		9.8	1.0	ug/L	10		98	70-130		
Dichlorodifluoromethane		10	1.0	ug/L	10		102	70-130		
Dichlorofluoromethane		11	1.0	ug/L	10		105	70-130		
Ethyl ether		10	1.0	ug/L	10		101	70-130		
Ethylbenzene		10	1.0	ug/L	10		102	70-130		
Hexachlorobutadiene		9.4	1.0	ug/L	10		94	70-130		
Isopropylbenzene		10	1.0	ug/L	10		104	70-130		
Methyl ethyl ketone (MEK)		53	10	ug/L	50		106	70-130		
Methyl isobutyl ketone (MIBK)		53	5.0	ug/L	50		106	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

LCS (B6D0765-BS1) **Prepared: 04/29/16 14:13 Analyzed: 04/29/16 14:13**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methyl tertiary butyl ether (MTBE)		10	2.0	ug/L	10		100	70-130		
Methylene chloride		10	2.0	ug/L	10		101	70-130		
Naphthalene		10	1.0	ug/L	10		103	70-130		
n-Butylbenzene		11	1.0	ug/L	10		106	70-130		
n-Propylbenzene		11	1.0	ug/L	10		106	70-130		
o-Xylene		10	1.0	ug/L	10		101	70-130		
p&m-Xylene		10	1.0	ug/L	10		101	70-130		
p-Isopropyltoluene		11	1.0	ug/L	10		106	70-130		
sec-Butylbenzene		11	1.0	ug/L	10		107	70-130		
Styrene		10	1.0	ug/L	10		102	70-130		
tert-Butylbenzene		10	1.0	ug/L	10		102	70-130		
Tetrachloroethene		10	1.0	ug/L	10		104	70-130		
Tetrahydrofuran (THF)		110	10	ug/L	100		106	70-130		
Toluene		10	1.0	ug/L	10		101	70-130		
trans-1,2-Dichloroethene		10	1.0	ug/L	10		103	70-130		
trans-1,3-Dichloropropene		9.9	1.0	ug/L	10		99	70-130		
Trichloroethene (TCE)		10	1.0	ug/L	10		100	70-130		
Trichlorofluoromethane		10	1.0	ug/L	10		105	70-130		
Vinyl chloride		10	1.0	ug/L	10		100	70-130		

Matrix Spike (B6D0765-MS1) Source: 16D1374-19 **Prepared: 04/29/16 15:24 Analyzed: 04/29/16 15:24**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	1100	100	ug/L	1,000	<	108	70-130		
1,1,1-Trichloroethane	D1	1200	100	ug/L	1,000	<	117	70-130		
1,1,2,2-Tetrachloroethane	D1	1100	100	ug/L	1,000	<	108	70-130		
1,1,2-Trichloroethane	D1	1100	100	ug/L	1,000	<	111	70-130		
1,1,2-Trichlorotrifluoroethane	D1	1200	100	ug/L	1,000	<	120	70-130		
1,1-Dichloroethane	D1	1200	100	ug/L	1,000	<	116	70-130		
1,1-Dichloroethene	D1	1200	100	ug/L	1,000	<	123	70-130		
1,1-Dichloropropene	D1	1200	100	ug/L	1,000	<	119	70-130		

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Matrix Spike (B6D0765-MS1) Source: 16D1374-19 **Prepared: 04/29/16 15:24 Analyzed: 04/29/16 15:24**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	108	70-130		
1,2,3-Trichloropropane	D1	1100	100	ug/L	1,000	<	110	70-130		
1,2,4-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	112	70-130		
1,2,4-Trimethylbenzene	D1	1200	100	ug/L	1,000	<	115	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	D1	1100	500	ug/L	1,000	<	108	70-130		
1,2-Dibromoethane (EDB)	D1	1100	100	ug/L	1,000	<	107	70-130		
1,2-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	110	70-130		
1,2-Dichloroethane	D1	1100	100	ug/L	1,000	<	112	70-130		
1,2-Dichloropropane	D1	1100	100	ug/L	1,000	<	112	70-130		
1,3,5-Trimethylbenzene	D1	1200	100	ug/L	1,000	<	117	70-130		
1,3-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	111	70-130		
1,3-Dichloropropane	D1	1100	100	ug/L	1,000	<	111	70-130		
1,4-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	110	70-130		
2,2-Dichloropropane	D1	1200	100	ug/L	1,000	<	121	70-130		
2-Chlorotoluene	D1	1200	100	ug/L	1,000	<	116	70-130		
4-Chlorotoluene	D1	1200	100	ug/L	1,000	<	116	70-130		
Acetone	D1	12000	2000	ug/L	10,000	<	111	70-130		
Allyl chloride	D1	1200	100	ug/L	1,000	<	115	70-130		
Benzene	D1	1100	100	ug/L	1,000	<	115	70-130		
Bromobenzene	D1	1100	100	ug/L	1,000	<	108	70-130		
Bromochloromethane	D1	1100	100	ug/L	1,000	<	111	70-130		
Bromodichloromethane	D1	1100	100	ug/L	1,000	<	108	70-130		
Bromoform	D1	1000	100	ug/L	1,000	<	101	70-130		
Bromomethane	D1	1100	200	ug/L	1,000	<	103	70-130		
Carbon tetrachloride	D1	1200	100	ug/L	1,000	<	118	70-130		
Chlorobenzene	D1	1100	100	ug/L	1,000	<	112	70-130		
Chlorodibromomethane	D1	1100	100	ug/L	1,000	<	108	70-130		
Chloroethane	D1	1100	100	ug/L	1,000	<	114	70-130		
Chloroform	D1	1100	100	ug/L	1,000	<	112	70-130		
Chloromethane	D1, M1	1300	100	ug/L	1,000	<	135	70-130		
cis-1,2-Dichloroethene	D1	1300	100	ug/L	1,000	120	113	70-130		
cis-1,3-Dichloropropene	D1	1100	100	ug/L	1,000	<	111	70-130		
Dibromomethane	D1	1100	100	ug/L	1,000	<	110	70-130		
Dichlorodifluoromethane	D1	1200	100	ug/L	1,000	<	121	70-130		
Dichlorofluoromethane	D1	1200	100	ug/L	1,000	<	120	70-130		

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Matrix Spike (B6D0765-MS1) Source: 16D1374-19 **Prepared: 04/29/16 15:24 Analyzed: 04/29/16 15:24**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Ethyl ether	D1	1100	100	ug/L	1,000	<	109	70-130		
Ethylbenzene	D1	1200	100	ug/L	1,000	<	117	70-130		
Hexachlorobutadiene	D1	1100	100	ug/L	1,000	<	99	70-130		
Isopropylbenzene	D1	1200	100	ug/L	1,000	<	116	70-130		
Methyl ethyl ketone (MEK)	D1	5700	1000	ug/L	5,000	<	113	70-130		
Methyl isobutyl ketone (MIBK)	D1	5700	500	ug/L	5,000	<	113	70-130		
Methyl tertiary butyl ether (MTBE)	D1	1100	200	ug/L	1,000	<	109	70-130		
Methylene chloride	D1	1100	200	ug/L	1,000	<	114	70-130		
Naphthalene	D1	1100	100	ug/L	1,000	<	109	70-130		
n-Butylbenzene	D1	1200	100	ug/L	1,000	<	121	70-130		
n-Propylbenzene	D1	1200	100	ug/L	1,000	<	120	70-130		
o-Xylene	D1	1100	100	ug/L	1,000	<	114	70-130		
p&m-Xylene	D1	1100	100	ug/L	1,000	<	113	70-130		
p-Isopropyltoluene	D1	1200	100	ug/L	1,000	<	119	70-130		
sec-Butylbenzene	D1	1200	100	ug/L	1,000	<	122	70-130		
Styrene	D1	1100	100	ug/L	1,000	<	114	70-130		
tert-Butylbenzene	D1	1200	100	ug/L	1,000	<	117	70-130		
Tetrachloroethene	D1, E1, M1	6600	100	ug/L	1,000	4800	180	70-130		
Tetrahydrofuran (THF)	D1	11000	1000	ug/L	10,000	<	112	70-130		
Toluene	D1	1100	100	ug/L	1,000	<	114	70-130		
trans-1,2-Dichloroethene	D1	1200	100	ug/L	1,000	<	119	70-130		
trans-1,3-Dichloropropene	D1	1100	100	ug/L	1,000	<	111	70-130		
Trichloroethene (TCE)	D1	1200	100	ug/L	1,000	<	116	70-130		
Trichlorofluoromethane	D1	1200	100	ug/L	1,000	<	121	70-130		
Vinyl chloride	D1	1200	100	ug/L	1,000	<	114	70-130		

Matrix Spike Dup (B6D0765-MSD1) Source: 16D1374-19 **Prepared: 04/29/16 15:47 Analyzed: 04/29/16 15:47**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*102*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane	D1	1000	100	ug/L	1,000	<	105	70-130	3	30
1,1,1-Trichloroethane	D1	1200	100	ug/L	1,000	<	118	70-130	0.5	30

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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St. Paul, MN 55164-0899
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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Matrix Spike Dup (B6D0765-MSD1) Source: 16D1374-19 **Prepared: 04/29/16 15:47 Analyzed: 04/29/16 15:47**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	D1	1100	100	ug/L	1,000	<	107	70-130	1	30
1,1,2-Trichloroethane	D1	1100	100	ug/L	1,000	<	107	70-130	4	30
1,1,2-Trichlorotrifluoroethane	D1	1200	100	ug/L	1,000	<	123	70-130	2	30
1,1-Dichloroethane	D1	1100	100	ug/L	1,000	<	113	70-130	2	30
1,1-Dichloroethene	D1	1200	100	ug/L	1,000	<	122	70-130	0.2	30
1,1-Dichloropropene	D1	1200	100	ug/L	1,000	<	117	70-130	2	30
1,2,3-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	107	70-130	1	30
1,2,3-Trichloropropane	D1	1100	100	ug/L	1,000	<	108	70-130	3	30
1,2,4-Trichlorobenzene	D1	1100	100	ug/L	1,000	<	109	70-130	2	30
1,2,4-Trimethylbenzene	D1	1100	100	ug/L	1,000	<	114	70-130	1	30
1,2-Dibromo-3-chloropropane (DBCP)	D1	1100	500	ug/L	1,000	<	109	70-130	0.3	30
1,2-Dibromoethane (EDB)	D1	1100	100	ug/L	1,000	<	105	70-130	2	30
1,2-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	108	70-130	2	30
1,2-Dichloroethane	D1	1100	100	ug/L	1,000	<	107	70-130	4	30
1,2-Dichloropropane	D1	1100	100	ug/L	1,000	<	111	70-130	1	30
1,3,5-Trimethylbenzene	D1	1100	100	ug/L	1,000	<	114	70-130	3	30
1,3-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	109	70-130	1	30
1,3-Dichloropropane	D1	1100	100	ug/L	1,000	<	107	70-130	4	30
1,4-Dichlorobenzene	D1	1100	100	ug/L	1,000	<	108	70-130	2	30
2,2-Dichloropropane	D1	1200	100	ug/L	1,000	<	118	70-130	3	30
2-Chlorotoluene	D1	1100	100	ug/L	1,000	<	113	70-130	3	30
4-Chlorotoluene	D1	1100	100	ug/L	1,000	<	114	70-130	2	30
Acetone	D1	11000	2000	ug/L	10,000	<	102	70-130	8	30
Allyl chloride	D1	1100	100	ug/L	1,000	<	112	70-130	3	30
Benzene	D1	1100	100	ug/L	1,000	<	112	70-130	2	30
Bromobenzene	D1	1000	100	ug/L	1,000	<	105	70-130	3	30
Bromochloromethane	D1	1000	100	ug/L	1,000	<	105	70-130	6	30
Bromodichloromethane	D1	1100	100	ug/L	1,000	<	106	70-130	2	30
Bromoform	D1	970	100	ug/L	1,000	<	97	70-130	4	30
Bromomethane	D1	1100	200	ug/L	1,000	<	104	70-130	0.5	30
Carbon tetrachloride	D1	1200	100	ug/L	1,000	<	115	70-130	2	30
Chlorobenzene	D1	1100	100	ug/L	1,000	<	109	70-130	2	30
Chlorodibromomethane	D1	1000	100	ug/L	1,000	<	103	70-130	4	30
Chloroethane	D1	1100	100	ug/L	1,000	<	112	70-130	2	30
Chloroform	D1	1100	100	ug/L	1,000	<	111	70-130	0.4	30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6D0765 - EPA 5030B Preparation

Matrix Spike Dup (B6D0765-MSD1) Source: 16D1374-19 **Prepared: 04/29/16 15:47 Analyzed: 04/29/16 15:47**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane	D1, M1	1300	100	ug/L	1,000	<	133	70-130	1	30
cis-1,2-Dichloroethene	D1	1200	100	ug/L	1,000	120	111	70-130	2	30
cis-1,3-Dichloropropene	D1	1100	100	ug/L	1,000	<	108	70-130	3	30
Dibromomethane	D1	1000	100	ug/L	1,000	<	104	70-130	6	30
Dichlorodifluoromethane	D1	1200	100	ug/L	1,000	<	117	70-130	3	30
Dichlorofluoromethane	D1	1200	100	ug/L	1,000	<	119	70-130	1	30
Ethyl ether	D1	1000	100	ug/L	1,000	<	104	70-130	5	30
Ethylbenzene	D1	1200	100	ug/L	1,000	<	116	70-130	1	30
Hexachlorobutadiene	D1	1100	100	ug/L	1,000	<	100	70-130	0.5	30
Isopropylbenzene	D1	1200	100	ug/L	1,000	<	115	70-130	0.9	30
Methyl ethyl ketone (MEK)	D1	5500	1000	ug/L	5,000	<	109	70-130	3	30
Methyl isobutyl ketone (MIBK)	D1	5600	500	ug/L	5,000	<	112	70-130	0.6	30
Methyl tertiary butyl ether (MTBE)	D1	1100	200	ug/L	1,000	<	108	70-130	1	30
Methylene chloride	D1	1100	200	ug/L	1,000	<	110	70-130	3	30
Naphthalene	D1	1100	100	ug/L	1,000	<	108	70-130	0.6	30
n-Butylbenzene	D1	1200	100	ug/L	1,000	<	120	70-130	1	30
n-Propylbenzene	D1	1200	100	ug/L	1,000	<	118	70-130	2	30
o-Xylene	D1	1100	100	ug/L	1,000	<	111	70-130	3	30
p&m-Xylene	D1	1100	100	ug/L	1,000	<	112	70-130	0.3	30
p-Isopropyltoluene	D1	1200	100	ug/L	1,000	<	119	70-130	0.3	30
sec-Butylbenzene	D1	1200	100	ug/L	1,000	<	122	70-130	0.6	30
Styrene	D1	1100	100	ug/L	1,000	<	110	70-130	4	30
tert-Butylbenzene	D1	1200	100	ug/L	1,000	<	115	70-130	1	30
Tetrachloroethene	D1, E1, M1	6400	100	ug/L	1,000	4800	164	70-130	2	30
Tetrahydrofuran (THF)	D1	11000	1000	ug/L	10,000	<	110	70-130	2	30
Toluene	D1	1100	100	ug/L	1,000	<	112	70-130	2	30
trans-1,2-Dichloroethene	D1	1200	100	ug/L	1,000	<	116	70-130	3	30
trans-1,3-Dichloropropene	D1	1100	100	ug/L	1,000	<	107	70-130	4	30
Trichloroethene (TCE)	D1	1200	100	ug/L	1,000	<	111	70-130	4	30
Trichlorofluoromethane	D1	1200	100	ug/L	1,000	<	122	70-130	0.8	30
Vinyl chloride	D1	1200	100	ug/L	1,000	<	113	70-130	1	30

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Blank (B6E0011-BLK1) **Prepared: 05/02/16 14:03 Analyzed: 05/02/16 14:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*99*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Blank (B6E0011-BLK1) **Prepared: 05/02/16 14:03 Analyzed: 05/02/16 14:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Blank (B6E0011-BLK1) **Prepared: 05/02/16 14:03 Analyzed: 05/02/16 14:03**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

LCS (B6E0011-BS1) **Prepared: 05/02/16 13:17 Analyzed: 05/02/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*103*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*100*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		10	1.0	ug/L	10		101	70-130		
1,1,2,2-Tetrachloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,2-Trichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,2-Trichlorotrifluoroethane		9.8	1.0	ug/L	10		98	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		102	70-130		
1,1-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,3-Trichloropropane		9.9	1.0	ug/L	10		99	70-130		
1,2,4-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,4-Trimethylbenzene		9.9	1.0	ug/L	10		99	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		10	5.0	ug/L	10		103	70-130		
1,2-Dibromoethane (EDB)		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,2-Dichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,2-Dichloropropane		10	1.0	ug/L	10		100	70-130		
1,3,5-Trimethylbenzene		10	1.0	ug/L	10		100	70-130		
1,3-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,3-Dichloropropane		9.9	1.0	ug/L	10		99	70-130		
1,4-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
2,2-Dichloropropane		9.9	1.0	ug/L	10		99	70-130		
2-Chlorotoluene		9.9	1.0	ug/L	10		99	70-130		

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Environmental Laboratory Section
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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

LCS (B6E0011-BS1) **Prepared: 05/02/16 13:17 Analyzed: 05/02/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene		10	1.0	ug/L	10		100	70-130		
Acetone		110	20	ug/L	100		112	70-130		
Allyl chloride		9.8	1.0	ug/L	10		98	70-130		
Benzene		9.7	1.0	ug/L	10		97	70-130		
Bromobenzene		9.4	1.0	ug/L	10		94	70-130		
Bromochloromethane		9.7	1.0	ug/L	10		97	70-130		
Bromodichloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromoform		9.2	1.0	ug/L	10		92	70-130		
Bromomethane		9.0	2.0	ug/L	10		90	70-130		
Carbon tetrachloride		9.6	1.0	ug/L	10		96	70-130		
Chlorobenzene		9.7	1.0	ug/L	10		97	70-130		
Chlorodibromomethane		9.6	1.0	ug/L	10		96	70-130		
Chloroethane		9.6	1.0	ug/L	10		96	70-130		
Chloroform		10	1.0	ug/L	10		100	70-130		
Chloromethane		9.8	1.0	ug/L	10		98	70-130		
cis-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
cis-1,3-Dichloropropene		9.9	1.0	ug/L	10		99	70-130		
Dibromomethane		9.8	1.0	ug/L	10		98	70-130		
Dichlorodifluoromethane		9.5	1.0	ug/L	10		95	70-130		
Dichlorofluoromethane		10	1.0	ug/L	10		101	70-130		
Ethyl ether		10	1.0	ug/L	10		102	70-130		
Ethylbenzene		10	1.0	ug/L	10		100	70-130		
Hexachlorobutadiene		8.9	1.0	ug/L	10		89	70-130		
Isopropylbenzene		9.8	1.0	ug/L	10		98	70-130		
Methyl ethyl ketone (MEK)		54	10	ug/L	50		107	70-130		
Methyl isobutyl ketone (MIBK)		53	5.0	ug/L	50		105	70-130		
Methyl tertiary butyl ether (MTBE)		10	2.0	ug/L	10		101	70-130		
Methylene chloride		10	2.0	ug/L	10		100	70-130		
Naphthalene		9.9	1.0	ug/L	10		99	70-130		
n-Butylbenzene		10	1.0	ug/L	10		101	70-130		
n-Propylbenzene		10	1.0	ug/L	10		101	70-130		
o-Xylene		9.9	1.0	ug/L	10		99	70-130		
p&m-Xylene		9.7	1.0	ug/L	10		97	70-130		
p-Isopropyltoluene		10	1.0	ug/L	10		102	70-130		
sec-Butylbenzene		10	1.0	ug/L	10		102	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

LCS (B6E0011-BS1) **Prepared: 05/02/16 13:17 Analyzed: 05/02/16 13:17**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Styrene		9.8	1.0	ug/L	10		98	70-130		
tert-Butylbenzene		9.8	1.0	ug/L	10		98	70-130		
Tetrachloroethene		10	1.0	ug/L	10		100	70-130		
Tetrahydrofuran (THF)		110	10	ug/L	100		106	70-130		
Toluene		9.7	1.0	ug/L	10		97	70-130		
trans-1,2-Dichloroethene		10	1.0	ug/L	10		100	70-130		
trans-1,3-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
Trichloroethene (TCE)		9.6	1.0	ug/L	10		96	70-130		
Trichlorofluoromethane		9.9	1.0	ug/L	10		99	70-130		
Vinyl chloride		9.6	1.0	ug/L	10		96	70-130		

Duplicate (B6E0011-DUP1) Source: 16D1831-02 **Prepared: 05/02/16 15:10 Analyzed: 05/02/16 15:10**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*102*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*105*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*104*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L		<				30
1,1,1-Trichloroethane		<	1.0	ug/L		<				30
1,1,2,2-Tetrachloroethane		<	1.0	ug/L		<				30
1,1,2-Trichloroethane		<	1.0	ug/L		<				30
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L		<				30
1,1-Dichloroethane		<	1.0	ug/L		<				30
1,1-Dichloroethene		<	1.0	ug/L		<				30
1,1-Dichloropropene		<	1.0	ug/L		<				30
1,2,3-Trichlorobenzene		<	1.0	ug/L		<				30
1,2,3-Trichloropropane		<	1.0	ug/L		<				30
1,2,4-Trichlorobenzene		<	1.0	ug/L		<				30
1,2,4-Trimethylbenzene		<	1.0	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L		<				30
1,2-Dibromoethane (EDB)		<	1.0	ug/L		<				30
1,2-Dichlorobenzene		<	1.0	ug/L		<				30
1,2-Dichloroethane		<	1.0	ug/L		<				30

FINAL REPORT

Report ID: 05112016131841

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Duplicate (B6E0011-DUP1) Source: 16D1831-02 **Prepared: 05/02/16 15:10 Analyzed: 05/02/16 15:10**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane		<	1.0	ug/L		<				30
1,3,5-Trimethylbenzene		<	1.0	ug/L		<				30
1,3-Dichlorobenzene		<	1.0	ug/L		<				30
1,3-Dichloropropane		<	1.0	ug/L		<				30
1,4-Dichlorobenzene		<	1.0	ug/L		<				30
2,2-Dichloropropane		<	1.0	ug/L		<				30
2-Chlorotoluene		<	1.0	ug/L		<				30
4-Chlorotoluene		<	1.0	ug/L		<				30
Acetone		<	20	ug/L		<				30
Allyl chloride		<	1.0	ug/L		<				30
Benzene		<	1.0	ug/L		<				30
Bromobenzene		<	1.0	ug/L		<				30
Bromochloromethane		<	1.0	ug/L		<				30
Bromodichloromethane		<	1.0	ug/L		<				30
Bromoform		<	1.0	ug/L		<				30
Bromomethane		<	2.0	ug/L		<				30
Carbon tetrachloride		<	1.0	ug/L		<				30
Chlorobenzene		<	1.0	ug/L		<				30
Chlorodibromomethane		<	1.0	ug/L		<				30
Chloroethane		<	1.0	ug/L		<				30
Chloroform		<	1.0	ug/L		<				30
Chloromethane		<	1.0	ug/L		<				30
cis-1,2-Dichloroethene		0.57	1.0	ug/L		<				30
cis-1,3-Dichloropropene		<	1.0	ug/L		<				30
Dibromomethane		<	1.0	ug/L		<				30
Dichlorodifluoromethane		<	1.0	ug/L		<				30
Dichlorofluoromethane		<	1.0	ug/L		<				30
Ethyl ether		<	1.0	ug/L		<				30
Ethylbenzene		<	1.0	ug/L		<				30
Hexachlorobutadiene		<	1.0	ug/L		<				30
Isopropylbenzene		<	1.0	ug/L		<				30
Methyl ethyl ketone (MEK)		<	10	ug/L		<				30
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L		<				30
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L		<				30
Methylene chloride		<	2.0	ug/L		<				30

FINAL REPORT

Report ID: 05112016131841

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Duplicate (B6E0011-DUP1) Source: 16D1831-02 **Prepared: 05/02/16 15:10 Analyzed: 05/02/16 15:10**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene		<	1.0	ug/L		<				30
n-Butylbenzene		<	1.0	ug/L		<				30
n-Propylbenzene		<	1.0	ug/L		<				30
o-Xylene		<	1.0	ug/L		<				30
p&m-Xylene		<	1.0	ug/L		<				30
p-Isopropyltoluene		<	1.0	ug/L		<				30
sec-Butylbenzene		<	1.0	ug/L		<				30
Styrene		<	1.0	ug/L		<				30
tert-Butylbenzene		<	1.0	ug/L		<				30
Tetrachloroethene		11	1.0	ug/L		12			8	30
Tetrahydrofuran (THF)		<	10	ug/L		<				30
Toluene		<	1.0	ug/L		<				30
trans-1,2-Dichloroethene		<	1.0	ug/L		<				30
trans-1,3-Dichloropropene		<	1.0	ug/L		<				30
Trichloroethene (TCE)	WB	1.2	1.0	ug/L		<			60	30
Trichlorofluoromethane		<	1.0	ug/L		<				30
Vinyl chloride		<	1.0	ug/L		<				30

Matrix Spike (B6E0011-MS1) Source: 16D1831-01 **Prepared: 05/02/16 13:40 Analyzed: 05/02/16 13:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*101*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		11	1.0	ug/L	10	<	111	70-130		
1,1,1-Trichloroethane		12	1.0	ug/L	10	<	122	70-130		
1,1,2,2-Tetrachloroethane		11	1.0	ug/L	10	<	112	70-130		
1,1,2-Trichloroethane		11	1.0	ug/L	10	<	114	70-130		
1,1,2-Trichlorotrifluoroethane		12	1.0	ug/L	10	<	123	70-130		
1,1-Dichloroethane		12	1.0	ug/L	10	<	120	70-130		
1,1-Dichloroethene		13	1.0	ug/L	10	<	128	70-130		
1,1-Dichloropropene		12	1.0	ug/L	10	<	124	70-130		
1,2,3-Trichlorobenzene		11	1.0	ug/L	10	<	113	70-130		
1,2,3-Trichloropropane		11	1.0	ug/L	10	<	113	70-130		

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Matrix Spike (B6E0011-MS1) Source: 16D1831-01 **Prepared: 05/02/16 13:40 Analyzed: 05/02/16 13:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene		11	1.0	ug/L	10	<	114	70-130		
1,2,4-Trimethylbenzene		12	1.0	ug/L	10	<	117	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		11	5.0	ug/L	10	<	110	70-130		
1,2-Dibromoethane (EDB)		11	1.0	ug/L	10	<	110	70-130		
1,2-Dichlorobenzene		11	1.0	ug/L	10	<	112	70-130		
1,2-Dichloroethane		12	1.0	ug/L	10	<	116	70-130		
1,2-Dichloropropane		12	1.0	ug/L	10	<	116	70-130		
1,3,5-Trimethylbenzene		12	1.0	ug/L	10	<	119	70-130		
1,3-Dichlorobenzene		11	1.0	ug/L	10	<	113	70-130		
1,3-Dichloropropane		12	1.0	ug/L	10	<	115	70-130		
1,4-Dichlorobenzene		11	1.0	ug/L	10	<	113	70-130		
2,2-Dichloropropane		12	1.0	ug/L	10	<	123	70-130		
2-Chlorotoluene		12	1.0	ug/L	10	<	118	70-130		
4-Chlorotoluene		12	1.0	ug/L	10	<	119	70-130		
Acetone		110	20	ug/L	100	<	113	70-130		
Allyl chloride		12	1.0	ug/L	10	<	119	70-130		
Benzene		12	1.0	ug/L	10	<	118	70-130		
Bromobenzene		11	1.0	ug/L	10	<	109	70-130		
Bromochloromethane		11	1.0	ug/L	10	<	111	70-130		
Bromodichloromethane		11	1.0	ug/L	10	<	115	70-130		
Bromoform		11	1.0	ug/L	10	<	105	70-130		
Bromomethane		12	2.0	ug/L	10	<	118	70-130		
Carbon tetrachloride		12	1.0	ug/L	10	<	123	70-130		
Chlorobenzene		11	1.0	ug/L	10	<	114	70-130		
Chlorodibromomethane		11	1.0	ug/L	10	<	111	70-130		
Chloroethane		11	1.0	ug/L	10	<	111	70-130		
Chloroform		12	1.0	ug/L	10	<	117	70-130		
Chloromethane		12	1.0	ug/L	10	<	125	70-130		
cis-1,2-Dichloroethene		12	1.0	ug/L	10	<	117	70-130		
cis-1,3-Dichloropropene		12	1.0	ug/L	10	<	116	70-130		
Dibromomethane		11	1.0	ug/L	10	<	110	70-130		
Dichlorodifluoromethane		12	1.0	ug/L	10	<	121	70-130		
Dichlorofluoromethane		12	1.0	ug/L	10	<	124	70-130		
Ethyl ether		11	1.0	ug/L	10	<	110	70-130		
Ethylbenzene		12	1.0	ug/L	10	<	120	70-130		

FINAL REPORT

Report ID: 05112016131841

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0011 - EPA 5030B Preparation

Matrix Spike (B6E0011-MS1) Source: 16D1831-01 **Prepared: 05/02/16 13:40 Analyzed: 05/02/16 13:40**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobutadiene		11	1.0	ug/L	10	<	103	70-130		
Isopropylbenzene		12	1.0	ug/L	10	<	120	70-130		
Methyl ethyl ketone (MEK)		58	10	ug/L	50	<	115	70-130		
Methyl isobutyl ketone (MIBK)		59	5.0	ug/L	50	<	117	70-130		
Methyl tertiary butyl ether (MTBE)		11	2.0	ug/L	10	<	114	70-130		
Methylene chloride		12	2.0	ug/L	10	<	115	70-130		
Naphthalene		11	1.0	ug/L	10	<	112	70-130		
n-Butylbenzene		13	1.0	ug/L	10	<	125	70-130		
n-Propylbenzene		12	1.0	ug/L	10	<	122	70-130		
o-Xylene		12	1.0	ug/L	10	<	115	70-130		
p&m-Xylene		12	1.0	ug/L	10	<	115	70-130		
p-Isopropyltoluene		12	1.0	ug/L	10	<	123	70-130		
sec-Butylbenzene		12	1.0	ug/L	10	<	124	70-130		
Styrene		12	1.0	ug/L	10	<	118	70-130		
tert-Butylbenzene		12	1.0	ug/L	10	<	119	70-130		
Tetrachloroethene		18	1.0	ug/L	10	5.5	123	70-130		
Tetrahydrofuran (THF)		120	10	ug/L	100	<	115	70-130		
Toluene		12	1.0	ug/L	10	<	116	70-130		
trans-1,2-Dichloroethene		12	1.0	ug/L	10	<	119	70-130		
trans-1,3-Dichloropropene		11	1.0	ug/L	10	<	114	70-130		
Trichloroethene (TCE)		12	1.0	ug/L	10	<	117	70-130		
Trichlorofluoromethane		12	1.0	ug/L	10	<	124	70-130		
Vinyl chloride		12	1.0	ug/L	10	<	119	70-130		

Batch B6E0102 - EPA 5030B Preparation

Blank (B6E0102-BLK1) **Prepared: 05/04/16 11:58 Analyzed: 05/04/16 11:58**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*99*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*98*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*100*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		<	1.0	ug/L						
1,1,1-Trichloroethane		<	1.0	ug/L						

FINAL REPORT Report ID: 05112016131841

Authorized by:

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Public Health Laboratory
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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0102 - EPA 5030B Preparation

Blank (B6E0102-BLK1) **Prepared: 05/04/16 11:58 Analyzed: 05/04/16 11:58**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane		<	1.0	ug/L						
1,1,2-Trichloroethane		<	1.0	ug/L						
1,1,2-Trichlorotrifluoroethane		<	1.0	ug/L						
1,1-Dichloroethane		<	1.0	ug/L						
1,1-Dichloroethene		<	1.0	ug/L						
1,1-Dichloropropene		<	1.0	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	1.0	ug/L						
1,2,4-Trichlorobenzene		<	1.0	ug/L						
1,2,4-Trimethylbenzene		<	1.0	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	5.0	ug/L						
1,2-Dibromoethane (EDB)		<	1.0	ug/L						
1,2-Dichlorobenzene		<	1.0	ug/L						
1,2-Dichloroethane		<	1.0	ug/L						
1,2-Dichloropropane		<	1.0	ug/L						
1,3,5-Trimethylbenzene		<	1.0	ug/L						
1,3-Dichlorobenzene		<	1.0	ug/L						
1,3-Dichloropropane		<	1.0	ug/L						
1,4-Dichlorobenzene		<	1.0	ug/L						
2,2-Dichloropropane		<	1.0	ug/L						
2-Chlorotoluene		<	1.0	ug/L						
4-Chlorotoluene		<	1.0	ug/L						
Acetone		<	20	ug/L						
Allyl chloride		<	1.0	ug/L						
Benzene		<	1.0	ug/L						
Bromobenzene		<	1.0	ug/L						
Bromochloromethane		<	1.0	ug/L						
Bromodichloromethane		<	1.0	ug/L						
Bromoform		<	1.0	ug/L						
Bromomethane		<	2.0	ug/L						
Carbon tetrachloride		<	1.0	ug/L						
Chlorobenzene		<	1.0	ug/L						
Chlorodibromomethane		<	1.0	ug/L						
Chloroethane		<	1.0	ug/L						
Chloroform		<	1.0	ug/L						

Authorized by:

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0102 - EPA 5030B Preparation

Blank (B6E0102-BLK1) **Prepared: 05/04/16 11:58 Analyzed: 05/04/16 11:58**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	1.0	ug/L						
cis-1,3-Dichloropropene		<	1.0	ug/L						
Dibromomethane		<	1.0	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	1.0	ug/L						
Ethyl ether		<	1.0	ug/L						
Ethylbenzene		<	1.0	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	1.0	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	2.0	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	1.0	ug/L						
n-Propylbenzene		<	1.0	ug/L						
o-Xylene		<	1.0	ug/L						
p&m-Xylene		<	1.0	ug/L						
p-Isopropyltoluene		<	1.0	ug/L						
sec-Butylbenzene		<	1.0	ug/L						
Styrene		<	1.0	ug/L						
tert-Butylbenzene		<	1.0	ug/L						
Tetrachloroethene		<	1.0	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	1.0	ug/L						
trans-1,2-Dichloroethene		<	1.0	ug/L						
trans-1,3-Dichloropropene		<	1.0	ug/L						
Trichloroethene (TCE)		<	1.0	ug/L						
Trichlorofluoromethane		<	1.0	ug/L						
Vinyl chloride		<	1.0	ug/L						

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
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Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0102 - EPA 5030B Preparation

LCS (B6E0102-BS1) **Prepared: 05/04/16 11:35 Analyzed: 05/04/16 11:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*100*	*70-130*	*%*	*25*					
Surrogate: 1,2-Dichloroethane-d4		*98*	*70-130*	*%*	*25*					
Surrogate: 4-Bromofluorobenzene		*102*	*70-130*	*%*	*25*					
Surrogate: Dibromofluoromethane		*101*	*70-130*	*%*	*25*					
Surrogate: Toluene-d8		*101*	*70-130*	*%*	*25*					
1,1,1,2-Tetrachloroethane		9.4	1.0	ug/L	10		94	70-130		
1,1,1-Trichloroethane		9.9	1.0	ug/L	10		99	70-130		
1,1,2,2-Tetrachloroethane		10	1.0	ug/L	10		101	70-130		
1,1,2-Trichloroethane		10	1.0	ug/L	10		102	70-130		
1,1,2-Trichlorotrifluoroethane		9.9	1.0	ug/L	10		99	70-130		
1,1-Dichloroethane		10	1.0	ug/L	10		100	70-130		
1,1-Dichloroethene		10	1.0	ug/L	10		101	70-130		
1,1-Dichloropropene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
1,2,3-Trichloropropane		10	1.0	ug/L	10		103	70-130		
1,2,4-Trichlorobenzene		9.9	1.0	ug/L	10		99	70-130		
1,2,4-Trimethylbenzene		9.8	1.0	ug/L	10		98	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		10	5.0	ug/L	10		101	70-130		
1,2-Dibromoethane (EDB)		9.9	1.0	ug/L	10		99	70-130		
1,2-Dichlorobenzene		9.6	1.0	ug/L	10		96	70-130		
1,2-Dichloroethane		10	1.0	ug/L	10		104	70-130		
1,2-Dichloropropane		10	1.0	ug/L	10		100	70-130		
1,3,5-Trimethylbenzene		9.9	1.0	ug/L	10		99	70-130		
1,3-Dichlorobenzene		9.7	1.0	ug/L	10		97	70-130		
1,3-Dichloropropane		10	1.0	ug/L	10		102	70-130		
1,4-Dichlorobenzene		9.8	1.0	ug/L	10		98	70-130		
2,2-Dichloropropane		10	1.0	ug/L	10		101	70-130		
2-Chlorotoluene		9.8	1.0	ug/L	10		98	70-130		
4-Chlorotoluene		10	1.0	ug/L	10		101	70-130		
Acetone		110	20	ug/L	100		110	70-130		
Allyl chloride		10	1.0	ug/L	10		101	70-130		
Benzene		9.9	1.0	ug/L	10		99	70-130		
Bromobenzene		9.6	1.0	ug/L	10		96	70-130		
Bromochloromethane		9.6	1.0	ug/L	10		96	70-130		
Bromodichloromethane		9.8	1.0	ug/L	10		98	70-130		

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0102 - EPA 5030B Preparation

LCS (B6E0102-BS1) **Prepared: 05/04/16 11:35 Analyzed: 05/04/16 11:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromoform		9.3	1.0	ug/L	10		93	70-130		
Bromomethane		9.8	2.0	ug/L	10		98	70-130		
Carbon tetrachloride		9.8	1.0	ug/L	10		98	70-130		
Chlorobenzene		9.7	1.0	ug/L	10		97	70-130		
Chlorodibromomethane		9.7	1.0	ug/L	10		97	70-130		
Chloroethane		9.5	1.0	ug/L	10		95	70-130		
Chloroform		9.9	1.0	ug/L	10		99	70-130		
Chloromethane		12	1.0	ug/L	10		118	70-130		
cis-1,2-Dichloroethene		9.8	1.0	ug/L	10		98	70-130		
cis-1,3-Dichloropropene		10	1.0	ug/L	10		100	70-130		
Dibromomethane		10	1.0	ug/L	10		100	70-130		
Dichlorodifluoromethane		9.7	1.0	ug/L	10		97	70-130		
Dichlorofluoromethane		10	1.0	ug/L	10		102	70-130		
Ethyl ether		9.8	1.0	ug/L	10		98	70-130		
Ethylbenzene		10	1.0	ug/L	10		101	70-130		
Hexachlorobutadiene		8.8	1.0	ug/L	10		88	70-130		
Isopropylbenzene		9.8	1.0	ug/L	10		98	70-130		
Methyl ethyl ketone (MEK)		53	10	ug/L	50		106	70-130		
Methyl isobutyl ketone (MIBK)		54	5.0	ug/L	50		109	70-130		
Methyl tertiary butyl ether (MTBE)		10	2.0	ug/L	10		102	70-130		
Methylene chloride		10	2.0	ug/L	10		101	70-130		
Naphthalene		10	1.0	ug/L	10		101	70-130		
n-Butylbenzene		10	1.0	ug/L	10		102	70-130		
n-Propylbenzene		10	1.0	ug/L	10		101	70-130		
o-Xylene		9.9	1.0	ug/L	10		99	70-130		
p&m-Xylene		9.8	1.0	ug/L	10		98	70-130		
p-Isopropyltoluene		10	1.0	ug/L	10		100	70-130		
sec-Butylbenzene		10	1.0	ug/L	10		103	70-130		
Styrene		10	1.0	ug/L	10		100	70-130		
tert-Butylbenzene		9.7	1.0	ug/L	10		97	70-130		
Tetrachloroethene		9.9	1.0	ug/L	10		99	70-130		
Tetrahydrofuran (THF)		110	10	ug/L	100		107	70-130		
Toluene		9.9	1.0	ug/L	10		99	70-130		
trans-1,2-Dichloroethene		10	1.0	ug/L	10		100	70-130		
trans-1,3-Dichloropropene		10	1.0	ug/L	10		100	70-130		

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

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651-201-5300

Final Report
Quality Control

Program Code: PL	Project ID: PRJ07955
Program Name: Metro MERLA-SF	Facility Name/ID: SR377
Collected By: Melissa Meeuwsen	City: Saint Louis Park Investigation FY16
Collector ID: None	Generated: 05/11/16 13:18

Results were produced by Minnesota Department of Health, except where noted.

Batch B6E0102 - EPA 5030B Preparation

LCS (B6E0102-BS1) **Prepared: 05/04/16 11:35 Analyzed: 05/04/16 11:35**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene (TCE)		9.6	1.0	ug/L	10		96	70-130		
Trichlorofluoromethane		9.8	1.0	ug/L	10		98	70-130		
Vinyl chloride		9.7	1.0	ug/L	10		97	70-130		

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Public Health Laboratory, Minnesota Department of Health

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St. Paul, MN 55164-0899
651-201-5300

Final Report
Quality Control

Data Qualifiers and Definitions

WB	Relative percent difference exceeded the laboratory acceptance limit. Result less than 5 times the RL.
Q4	Sample received and analyzed without chemical preservation.
Q2	Sample received with head space.
M1	Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
E1	Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
D1	Sample required dilution due to matrix. Reporting limit has been raised.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%REC	Percent Recovery

Authorized by:

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Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 23, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10337978001	**SSV-1**	Air	02/08/16 10:30	02/09/16 11:00
10337978002	**SSV-2**	Air	02/08/16 10:31	02/09/16 11:00
10337978003	**SSV-3**	Air	02/08/16 10:35	02/09/16 11:00
10337978004	**SSV-4**	Air	02/08/16 10:32	02/09/16 11:00
10337978005	**SSV-5**	Air	02/08/16 10:49	02/09/16 11:00
10337978006	**IA-1**	Air	02/09/16 10:18	02/09/16 11:00
10337978007	**IA-2**	Air	02/09/16 10:23	02/09/16 11:00
10337978008	**IA-3**	Air	02/09/16 10:23	02/09/16 11:00
10337978009	**IA-4**	Air	02/09/16 10:30	02/09/16 11:00
10337978010	**AA-1**	Air	02/09/16 10:18	02/09/16 11:00
10337978011	**SSV-1 Can Cert**	Air	02/08/16 10:30	02/09/16 11:00
10337978012	**SSV-2 Can Cert**	Air	02/08/16 10:31	02/09/16 11:00
10337978013	**SSV-3 Can Cert**	Air	02/08/16 10:35	02/09/16 11:00
10337978014	**SSV-4 Can Cert**	Air	02/08/16 10:32	02/09/16 11:00
10337978015	**SSV-5 Can Cert**	Air	02/08/16 10:49	02/09/16 11:00
10337978016	**IA-1 Can Cert**	Air	02/09/16 10:18	02/09/16 11:00
10337978017	**IA-2 Can Cert**	Air	02/09/16 10:23	02/09/16 11:00
10337978018	**IA-3 Can Cert**	Air	02/09/16 10:23	02/09/16 11:00
10337978019	**IA-4 Can Cert**	Air	02/09/16 10:30	02/09/16 11:00
10337978020	**AA-1 Can Cert**	Air	02/09/16 10:18	02/09/16 11:00

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SAMPLE ANALYTE COUNT

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10337978001	**SSV-1**	TO-15	DR1	61
10337978002	**SSV-2**	TO-15	DR1	61
10337978003	**SSV-3**	TO-15	DR1	61
10337978004	**SSV-4**	TO-15	DR1	61
10337978005	**SSV-5**	TO-15	DR1	61
10337978006	**IA-1**	TO-15	DR1	61
10337978007	**IA-2**	TO-15	DR1	61
10337978008	**IA-3**	TO-15	DR1	61
10337978009	**IA-4**	TO-15	DR1	61
10337978010	**AA-1**	TO-15	DR1	61
10337978011	**SSV-1 Can Cert**	TO-15	MJL	61
10337978012	**SSV-2 Can Cert**	TO-15	MJL	61
10337978013	**SSV-3 Can Cert**	TO-15	MJL	61
10337978014	**SSV-4 Can Cert**	TO-15	MJL	61
10337978015	**SSV-5 Can Cert**	TO-15	MJL	61
10337978016	**IA-1 Can Cert**	TO-15	MJL	61
10337978017	**IA-2 Can Cert**	TO-15	MJL	61
10337978018	**IA-3 Can Cert**	TO-15	MLS	61
10337978019	**IA-4 Can Cert**	TO-15	MJL	61
10337978020	**AA-1 Can Cert**	TO-15	MJL	61

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SUMMARY OF DETECTION

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10337978001	**SSV-1**					
TO-15	Acetone	15.6	ug/m3	3.4	02/17/16 16:03	
TO-15	Benzene	0.93	ug/m3	0.45	02/17/16 16:03	
TO-15	2-Butanone (MEK)	5.6	ug/m3	4.2	02/17/16 16:03	
TO-15	Cyclohexane	21.1	ug/m3	0.97	02/17/16 16:03	
TO-15	Dichlorodifluoromethane	2.0	ug/m3	1.4	02/17/16 16:03	
TO-15	Ethanol	40.7	ug/m3	1.3	02/17/16 16:03	
TO-15	4-Ethyltoluene	1.7	ug/m3	1.4	02/17/16 16:03	
TO-15	n-Heptane	1.3	ug/m3	1.2	02/17/16 16:03	
TO-15	n-Hexane	931	ug/m3	10.0	02/18/16 18:08	
TO-15	Methylene Chloride	557	ug/m3	4.9	02/17/16 16:03	
TO-15	2-Propanol	33.0	ug/m3	3.5	02/17/16 16:03	
TO-15	Tetrachloroethene	2.2	ug/m3	0.96	02/17/16 16:03	
TO-15	Toluene	1010	ug/m3	21.4	02/19/16 17:11	
TO-15	1,1,1-Trichloroethane	4.1	ug/m3	1.5	02/17/16 16:03	
TO-15	Trichloroethene	31.3	ug/m3	0.76	02/17/16 16:03	
TO-15	Trichlorofluoromethane	5.9	ug/m3	1.6	02/17/16 16:03	
TO-15	1,2,4-Trimethylbenzene	1.9	ug/m3	1.4	02/17/16 16:03	
TO-15	Vinyl acetate	30.9	ug/m3	1.0	02/17/16 16:03	
10337978002	**SSV-2**					
TO-15	Acetone	23.9	ug/m3	3.4	02/17/16 16:30	
TO-15	Benzene	0.95	ug/m3	0.45	02/17/16 16:30	
TO-15	2-Butanone (MEK)	10.7	ug/m3	4.2	02/17/16 16:30	
TO-15	Chloroform	3.8	ug/m3	0.69	02/17/16 16:30	
TO-15	Cyclohexane	27.7	ug/m3	0.97	02/17/16 16:30	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.4	02/17/16 16:30	
TO-15	Ethanol	42.3	ug/m3	1.3	02/17/16 16:30	
TO-15	n-Hexane	286	ug/m3	5.0	02/18/16 18:32	
TO-15	Methylene Chloride	281	ug/m3	4.9	02/17/16 16:30	
TO-15	Naphthalene	5.3	ug/m3	3.7	02/17/16 16:30	
TO-15	2-Propanol	35.4	ug/m3	3.5	02/17/16 16:30	
TO-15	Tetrachloroethene	3.5	ug/m3	0.96	02/17/16 16:30	
TO-15	Toluene	484	ug/m3	5.4	02/18/16 18:32	
TO-15	1,1,1-Trichloroethane	3.2	ug/m3	1.5	02/17/16 16:30	
TO-15	Trichloroethene	135	ug/m3	0.76	02/17/16 16:30	
TO-15	Trichlorofluoromethane	12.3	ug/m3	1.6	02/17/16 16:30	
TO-15	1,2,4-Trimethylbenzene	1.5	ug/m3	1.4	02/17/16 16:30	
10337978003	**SSV-3**					
TO-15	Acetone	38.4	ug/m3	3.4	02/17/16 16:58	
TO-15	Benzene	1.5	ug/m3	0.45	02/17/16 16:58	
TO-15	2-Butanone (MEK)	5.3	ug/m3	4.2	02/17/16 16:58	
TO-15	Chloromethane	1.3	ug/m3	0.58	02/17/16 16:58	
TO-15	Cyclohexane	4.2	ug/m3	0.97	02/17/16 16:58	
TO-15	Dichlorodifluoromethane	2.3	ug/m3	1.4	02/17/16 16:58	
TO-15	Ethanol	16.2	ug/m3	1.3	02/17/16 16:58	
TO-15	n-Heptane	3.4	ug/m3	1.2	02/17/16 16:58	
TO-15	n-Hexane	111	ug/m3	1.0	02/17/16 16:58	

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SUMMARY OF DETECTION

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10337978003	**SSV-3**					
TO-15	Methylene Chloride	257	ug/m3	4.9	02/17/16 16:58	
TO-15	Naphthalene	4.8	ug/m3	3.7	02/17/16 16:58	
TO-15	2-Propanol	12.4	ug/m3	3.5	02/17/16 16:58	
TO-15	Tetrahydrofuran	10.2	ug/m3	0.83	02/17/16 16:58	
TO-15	Toluene	478	ug/m3	5.4	02/18/16 18:55	
TO-15	Trichloroethene	7.1	ug/m3	0.76	02/17/16 16:58	
TO-15	Trichlorofluoromethane	2.2	ug/m3	1.6	02/17/16 16:58	
TO-15	1,2,4-Trimethylbenzene	1.6	ug/m3	1.4	02/17/16 16:58	
TO-15	m&p-Xylene	4.1	ug/m3	2.5	02/17/16 16:58	
TO-15	o-Xylene	1.4	ug/m3	1.2	02/17/16 16:58	
10337978004	**SSV-4**					
TO-15	Acetone	34.5	ug/m3	3.4	02/17/16 17:25	
TO-15	Benzene	1.4	ug/m3	0.45	02/17/16 17:25	
TO-15	2-Butanone (MEK)	5.4	ug/m3	4.2	02/17/16 17:25	
TO-15	Cyclohexane	22.6	ug/m3	0.97	02/17/16 17:25	
TO-15	Dichlorodifluoromethane	2.0	ug/m3	1.4	02/17/16 17:25	
TO-15	Ethanol	51.7	ug/m3	1.3	02/17/16 17:25	
TO-15	n-Hexane	677	ug/m3	10.0	02/18/16 19:18	
TO-15	Methylene Chloride	264	ug/m3	4.9	02/17/16 17:25	
TO-15	2-Propanol	39.0	ug/m3	3.5	02/17/16 17:25	
TO-15	Toluene	547	ug/m3	10.7	02/18/16 19:18	
TO-15	Trichloroethene	10.0	ug/m3	0.76	02/17/16 17:25	
TO-15	Trichlorofluoromethane	6.2	ug/m3	1.6	02/17/16 17:25	
TO-15	1,2,4-Trimethylbenzene	1.5	ug/m3	1.4	02/17/16 17:25	
10337978005	**SSV-5**					
TO-15	Acetone	34.4	ug/m3	3.2	02/17/16 17:52	
TO-15	Benzene	1.5	ug/m3	0.44	02/17/16 17:52	
TO-15	Chloroform	2.3	ug/m3	0.66	02/17/16 17:52	
TO-15	Cyclohexane	4.5	ug/m3	0.94	02/17/16 17:52	
TO-15	Dichlorodifluoromethane	2.0	ug/m3	1.4	02/17/16 17:52	
TO-15	Ethanol	32.6	ug/m3	1.3	02/17/16 17:52	
TO-15	Ethylbenzene	1.8	ug/m3	1.2	02/17/16 17:52	
TO-15	n-Heptane	1.4	ug/m3	1.1	02/17/16 17:52	
TO-15	n-Hexane	189	ug/m3	9.6	02/18/16 19:41	
TO-15	Methylene Chloride	39.2	ug/m3	4.7	02/17/16 17:52	
TO-15	2-Propanol	35.1	ug/m3	3.4	02/17/16 17:52	
TO-15	Toluene	429	ug/m3	10.3	02/18/16 19:41	
TO-15	Trichloroethene	14.3	ug/m3	0.74	02/17/16 17:52	
TO-15	Trichlorofluoromethane	3.4	ug/m3	1.5	02/17/16 17:52	
TO-15	1,2,4-Trimethylbenzene	1.9	ug/m3	1.3	02/17/16 17:52	
TO-15	m&p-Xylene	4.8	ug/m3	2.4	02/17/16 17:52	
TO-15	o-Xylene	1.9	ug/m3	1.2	02/17/16 17:52	
10337978006	**IA-1**					
TO-15	Acetone	115	ug/m3	3.2	02/17/16 18:41	
TO-15	Benzene	1.5	ug/m3	0.44	02/17/16 18:41	
TO-15	2-Butanone (MEK)	8.0	ug/m3	4.0	02/17/16 18:41	

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SUMMARY OF DETECTION

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10337978006	**IA-1**					
TO-15	Cyclohexane	54.4	ug/m3	0.94	02/17/16 18:41	
TO-15	Dichlorodifluoromethane	2.2	ug/m3	1.4	02/17/16 18:41	
TO-15	Ethanol	30.2	ug/m3	1.3	02/17/16 18:41	
TO-15	Ethylbenzene	3.5	ug/m3	1.2	02/17/16 18:41	
TO-15	4-Ethyltoluene	18.4	ug/m3	1.3	02/17/16 18:41	
TO-15	n-Heptane	3.4	ug/m3	1.1	02/17/16 18:41	
TO-15	n-Hexane	692	ug/m3	19.3	02/18/16 17:45	
TO-15	Methylene Chloride	1700	ug/m3	94.6	02/18/16 17:45	
TO-15	Styrene	2.8	ug/m3	1.2	02/17/16 18:41	
TO-15	Toluene	1550	ug/m3	20.6	02/18/16 17:45	
TO-15	1,1,1-Trichloroethane	5.7	ug/m3	1.5	02/17/16 18:41	
TO-15	Trichloroethene	109	ug/m3	0.74	02/17/16 18:41	
TO-15	Trichlorofluoromethane	8.0	ug/m3	1.5	02/17/16 18:41	
TO-15	1,2,4-Trimethylbenzene	41.5	ug/m3	1.3	02/17/16 18:41	
TO-15	1,3,5-Trimethylbenzene	14.1	ug/m3	1.3	02/17/16 18:41	
TO-15	m&p-Xylene	10.1	ug/m3	2.4	02/17/16 18:41	
TO-15	o-Xylene	4.8	ug/m3	1.2	02/17/16 18:41	
10337978007	**IA-2**					
TO-15	Acetone	35.2	ug/m3	3.6	02/17/16 19:09	
TO-15	Benzene	0.91	ug/m3	0.48	02/17/16 19:09	
TO-15	2-Butanone (MEK)	9.9	ug/m3	4.5	02/17/16 19:09	
TO-15	Chloromethane	2.4	ug/m3	0.63	02/17/16 19:09	
TO-15	Cyclohexane	3.1	ug/m3	1.0	02/17/16 19:09	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.5	02/17/16 19:09	
TO-15	Ethanol	52.4	ug/m3	1.4	02/17/16 19:09	
TO-15	n-Hexane	54.1	ug/m3	1.1	02/17/16 19:09	
TO-15	Methylene Chloride	280	ug/m3	5.3	02/17/16 19:09	
TO-15	2-Propanol	5.4	ug/m3	3.7	02/17/16 19:09	
TO-15	Toluene	85.0	ug/m3	1.1	02/17/16 19:09	
TO-15	Trichloroethene	4.7	ug/m3	0.82	02/17/16 19:09	
TO-15	Trichlorofluoromethane	1.9	ug/m3	1.7	02/17/16 19:09	
TO-15	1,2,4-Trimethylbenzene	2.8	ug/m3	1.5	02/17/16 19:09	
10337978008	**IA-3**					
TO-15	Acetone	37.2	ug/m3	3.5	02/17/16 20:05	
TO-15	Benzene	0.49	ug/m3	0.47	02/17/16 20:05	
TO-15	2-Butanone (MEK)	11.8	ug/m3	4.3	02/17/16 20:05	
TO-15	Chloromethane	1.1	ug/m3	0.60	02/17/16 20:05	
TO-15	Cyclohexane	3.6	ug/m3	1.0	02/17/16 20:05	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.5	02/17/16 20:05	
TO-15	Ethanol	71.2	ug/m3	1.4	02/17/16 20:05	
TO-15	4-Ethyltoluene	1.6	ug/m3	1.4	02/17/16 20:05	
TO-15	n-Hexane	53.0	ug/m3	1.0	02/17/16 20:05	
TO-15	Methylene Chloride	121	ug/m3	5.1	02/17/16 20:05	
TO-15	2-Propanol	26.4	ug/m3	3.6	02/17/16 20:05	
TO-15	Toluene	116	ug/m3	1.1	02/17/16 20:05	
TO-15	Trichloroethene	7.0	ug/m3	0.79	02/17/16 20:05	

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SUMMARY OF DETECTION

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10337978008	**IA-3**					
TO-15	Trichlorofluoromethane	1.6	ug/m3	1.6	02/17/16 20:05	
TO-15	1,2,4-Trimethylbenzene	3.4	ug/m3	1.4	02/17/16 20:05	
10337978009	**IA-4**					
TO-15	Acetone	89.6	ug/m3	3.9	02/17/16 20:31	
TO-15	Benzene	2.1	ug/m3	0.52	02/17/16 20:31	
TO-15	2-Butanone (MEK)	49.3	ug/m3	4.8	02/17/16 20:31	
TO-15	Cyclohexane	33.8	ug/m3	1.1	02/17/16 20:31	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.6	02/17/16 20:31	
TO-15	Ethanol	80.2	ug/m3	1.5	02/17/16 20:31	
TO-15	Ethylbenzene	2.9	ug/m3	1.4	02/17/16 20:31	
TO-15	4-Ethyltoluene	10.7	ug/m3	1.6	02/17/16 20:31	
TO-15	n-Heptane	2.7	ug/m3	1.3	02/17/16 20:31	
TO-15	n-Hexane	470	ug/m3	11.6	02/18/16 20:03	
TO-15	Methylene Chloride	1150	ug/m3	56.8	02/18/16 20:03	
TO-15	2-Propanol	5.2	ug/m3	4.0	02/17/16 20:31	
TO-15	Styrene	3.3	ug/m3	1.4	02/17/16 20:31	
TO-15	Toluene	1000	ug/m3	12.4	02/18/16 20:03	
TO-15	1,1,1-Trichloroethane	2.9	ug/m3	1.8	02/17/16 20:31	
TO-15	Trichloroethene	54.8	ug/m3	0.89	02/17/16 20:31	
TO-15	Trichlorofluoromethane	8.7	ug/m3	1.8	02/17/16 20:31	
TO-15	1,2,4-Trimethylbenzene	24.2	ug/m3	1.6	02/17/16 20:31	
TO-15	1,3,5-Trimethylbenzene	8.2	ug/m3	1.6	02/17/16 20:31	
TO-15	m&p-Xylene	8.6	ug/m3	2.8	02/17/16 20:31	
TO-15	o-Xylene	3.6	ug/m3	1.4	02/17/16 20:31	
10337978010	**AA-1**					
TO-15	Acetone	15.8	ug/m3	3.2	02/17/16 20:58	
TO-15	Chloromethane	0.82	ug/m3	0.56	02/17/16 20:58	
TO-15	Cyclohexane	1.3	ug/m3	0.94	02/17/16 20:58	
TO-15	Dichlorodifluoromethane	2.3	ug/m3	1.4	02/17/16 20:58	
TO-15	Ethanol	15.6	ug/m3	1.3	02/17/16 20:58	
TO-15	n-Hexane	25.9	ug/m3	0.96	02/17/16 20:58	
TO-15	2-Propanol	7.3	ug/m3	3.4	02/17/16 20:58	
TO-15	Toluene	28.4	ug/m3	1.0	02/17/16 20:58	

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PROJECT NARRATIVE

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Date: February 23, 2016

SSV-1 (Lab ID: 10337978001)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-2 (Lab ID: 10337978002)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-3 (Lab ID: 10337978003)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-4 (Lab ID: 10337978004)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-5 (Lab ID: 10337978005)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

IA-1 (Lab ID: 10337978006)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

IA-2 (Lab ID: 10337978007)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

IA-3 (Lab ID: 10337978008)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

IA-4 (Lab ID: 10337978009)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

AA-1 (Lab ID: 10337978010)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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PROJECT NARRATIVE

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: February 23, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: AIR/25246

R1: RPD value was outside control limits.

- DUP (Lab ID: 2194253)
  - Chloromethane
  - Dichlorodifluoromethane
- DUP (Lab ID: 2194254)
  - Dichlorodifluoromethane

Additional Comments:

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PROJECT NARRATIVE

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Method: **TO-15**
Description: Individual Can Certification
Client: AECOM- MN ND
Date: February 23, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-1 **Lab ID: 10337978001** Collected: 02/08/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.6**	ug/m3	3.4	1.2	1.39		02/17/16 16:03	67-64-1	
Benzene	**0.93**	ug/m3	0.45	0.17	1.39		02/17/16 16:03	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/17/16 16:03	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/17/16 16:03	75-27-4	
Bromoform	ND	ug/m3	14.6	1.3	1.39		02/17/16 16:03	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/17/16 16:03	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/17/16 16:03	106-99-0	
2-Butanone (MEK)	**5.6**	ug/m3	4.2	0.32	1.39		02/17/16 16:03	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/17/16 16:03	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/17/16 16:03	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/17/16 16:03	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/17/16 16:03	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/17/16 16:03	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/17/16 16:03	74-87-3	
Cyclohexane	**21.1**	ug/m3	0.97	0.44	1.39		02/17/16 16:03	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/17/16 16:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/17/16 16:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/17/16 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/17/16 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/17/16 16:03	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.4	0.67	1.39		02/17/16 16:03	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/17/16 16:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/17/16 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/17/16 16:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/17/16 16:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/17/16 16:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/17/16 16:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/17/16 16:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/17/16 16:03	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/17/16 16:03	76-14-2	
Ethanol	**40.7**	ug/m3	1.3	0.37	1.39		02/17/16 16:03	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/17/16 16:03	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		02/17/16 16:03	100-41-4	
4-Ethyltoluene	**1.7**	ug/m3	1.4	0.26	1.39		02/17/16 16:03	622-96-8	
n-Heptane	**1.3**	ug/m3	1.2	0.39	1.39		02/17/16 16:03	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/17/16 16:03	87-68-3	
n-Hexane	**931**	ug/m3	10.0	5.0	13.9		02/18/16 18:08	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/17/16 16:03	591-78-6	
Methylene Chloride	**557**	ug/m3	4.9	0.75	1.39		02/17/16 16:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/17/16 16:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/17/16 16:03	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		02/17/16 16:03	91-20-3	
2-Propanol	**33.0**	ug/m3	3.5	0.33	1.39		02/17/16 16:03	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/17/16 16:03	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/17/16 16:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/17/16 16:03	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-1 **Lab ID: 10337978001** Collected: 02/08/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2.2**	ug/m3	0.96	0.39	1.39		02/17/16 16:03	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		02/17/16 16:03	109-99-9	
Toluene	**1010**	ug/m3	21.4	4.3	27.8		02/19/16 17:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/17/16 16:03	120-82-1	
1,1,1-Trichloroethane	**4.1**	ug/m3	1.5	0.34	1.39		02/17/16 16:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/17/16 16:03	79-00-5	
Trichloroethene	**31.3**	ug/m3	0.76	0.38	1.39		02/17/16 16:03	79-01-6	
Trichlorofluoromethane	**5.9**	ug/m3	1.6	0.18	1.39		02/17/16 16:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/17/16 16:03	76-13-1	
1,2,4-Trimethylbenzene	**1.9**	ug/m3	1.4	0.17	1.39		02/17/16 16:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		02/17/16 16:03	108-67-8	
Vinyl acetate	**30.9**	ug/m3	1.0	0.46	1.39		02/17/16 16:03	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/17/16 16:03	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.1	1.39		02/17/16 16:03	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.49	1.39		02/17/16 16:03	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-2 **Lab ID: 10337978002** Collected: 02/08/16 10:31 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**23.9**	ug/m3	3.4	1.2	1.39		02/17/16 16:30	67-64-1	
Benzene	**0.95**	ug/m3	0.45	0.17	1.39		02/17/16 16:30	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/17/16 16:30	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/17/16 16:30	75-27-4	
Bromoform	ND	ug/m3	14.6	1.3	1.39		02/17/16 16:30	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/17/16 16:30	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/17/16 16:30	106-99-0	
2-Butanone (MEK)	**10.7**	ug/m3	4.2	0.32	1.39		02/17/16 16:30	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/17/16 16:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/17/16 16:30	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/17/16 16:30	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/17/16 16:30	75-00-3	
Chloroform	**3.8**	ug/m3	0.69	0.26	1.39		02/17/16 16:30	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/17/16 16:30	74-87-3	
Cyclohexane	**27.7**	ug/m3	0.97	0.44	1.39		02/17/16 16:30	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/17/16 16:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/17/16 16:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/17/16 16:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/17/16 16:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/17/16 16:30	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.4	0.67	1.39		02/17/16 16:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/17/16 16:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/17/16 16:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/17/16 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/17/16 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/17/16 16:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/17/16 16:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/17/16 16:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/17/16 16:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/17/16 16:30	76-14-2	
Ethanol	**42.3**	ug/m3	1.3	0.37	1.39		02/17/16 16:30	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/17/16 16:30	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		02/17/16 16:30	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		02/17/16 16:30	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		02/17/16 16:30	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/17/16 16:30	87-68-3	
n-Hexane	**286**	ug/m3	5.0	2.5	6.95		02/18/16 18:32	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/17/16 16:30	591-78-6	
Methylene Chloride	**281**	ug/m3	4.9	0.75	1.39		02/17/16 16:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/17/16 16:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/17/16 16:30	1634-04-4	
Naphthalene	**5.3**	ug/m3	3.7	0.42	1.39		02/17/16 16:30	91-20-3	
2-Propanol	**35.4**	ug/m3	3.5	0.33	1.39		02/17/16 16:30	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/17/16 16:30	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/17/16 16:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/17/16 16:30	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-2 **Lab ID: 10337978002** Collected: 02/08/16 10:31 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**3.5**	ug/m3	0.96	0.39	1.39		02/17/16 16:30	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		02/17/16 16:30	109-99-9	
Toluene	**484**	ug/m3	5.4	1.1	6.95		02/18/16 18:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/17/16 16:30	120-82-1	
1,1,1-Trichloroethane	**3.2**	ug/m3	1.5	0.34	1.39		02/17/16 16:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/17/16 16:30	79-00-5	
Trichloroethene	**135**	ug/m3	0.76	0.38	1.39		02/17/16 16:30	79-01-6	
Trichlorofluoromethane	**12.3**	ug/m3	1.6	0.18	1.39		02/17/16 16:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/17/16 16:30	76-13-1	
1,2,4-Trimethylbenzene	**1.5**	ug/m3	1.4	0.17	1.39		02/17/16 16:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		02/17/16 16:30	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		02/17/16 16:30	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/17/16 16:30	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.1	1.39		02/17/16 16:30	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.49	1.39		02/17/16 16:30	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-3 **Lab ID: 10337978003** Collected: 02/08/16 10:35 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**38.4**	ug/m3	3.4	1.2	1.39		02/17/16 16:58	67-64-1	
Benzene	**1.5**	ug/m3	0.45	0.17	1.39		02/17/16 16:58	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/17/16 16:58	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/17/16 16:58	75-27-4	
Bromoform	ND	ug/m3	14.6	1.3	1.39		02/17/16 16:58	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/17/16 16:58	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/17/16 16:58	106-99-0	
2-Butanone (MEK)	**5.3**	ug/m3	4.2	0.32	1.39		02/17/16 16:58	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/17/16 16:58	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/17/16 16:58	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/17/16 16:58	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/17/16 16:58	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/17/16 16:58	67-66-3	
Chloromethane	**1.3**	ug/m3	0.58	0.15	1.39		02/17/16 16:58	74-87-3	
Cyclohexane	**4.2**	ug/m3	0.97	0.44	1.39		02/17/16 16:58	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/17/16 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/17/16 16:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/17/16 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/17/16 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/17/16 16:58	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.4	0.67	1.39		02/17/16 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/17/16 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/17/16 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/17/16 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/17/16 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/17/16 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/17/16 16:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/17/16 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/17/16 16:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/17/16 16:58	76-14-2	
Ethanol	**16.2**	ug/m3	1.3	0.37	1.39		02/17/16 16:58	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/17/16 16:58	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		02/17/16 16:58	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		02/17/16 16:58	622-96-8	
n-Heptane	**3.4**	ug/m3	1.2	0.39	1.39		02/17/16 16:58	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/17/16 16:58	87-68-3	
n-Hexane	**111**	ug/m3	1.0	0.50	1.39		02/17/16 16:58	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/17/16 16:58	591-78-6	
Methylene Chloride	**257**	ug/m3	4.9	0.75	1.39		02/17/16 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/17/16 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/17/16 16:58	1634-04-4	
Naphthalene	**4.8**	ug/m3	3.7	0.42	1.39		02/17/16 16:58	91-20-3	
2-Propanol	**12.4**	ug/m3	3.5	0.33	1.39		02/17/16 16:58	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/17/16 16:58	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/17/16 16:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/17/16 16:58	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-3 **Lab ID: 10337978003** Collected: 02/08/16 10:35 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.96	0.39	1.39		02/17/16 16:58	127-18-4	
Tetrahydrofuran	**10.2**	ug/m3	0.83	0.17	1.39		02/17/16 16:58	109-99-9	
Toluene	**478**	ug/m3	5.4	1.1	6.95		02/18/16 18:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/17/16 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		02/17/16 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/17/16 16:58	79-00-5	
Trichloroethene	**7.1**	ug/m3	0.76	0.38	1.39		02/17/16 16:58	79-01-6	
Trichlorofluoromethane	**2.2**	ug/m3	1.6	0.18	1.39		02/17/16 16:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/17/16 16:58	76-13-1	
1,2,4-Trimethylbenzene	**1.6**	ug/m3	1.4	0.17	1.39		02/17/16 16:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		02/17/16 16:58	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		02/17/16 16:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/17/16 16:58	75-01-4	
m&p-Xylene	**4.1**	ug/m3	2.5	1.1	1.39		02/17/16 16:58	179601-23-1	
o-Xylene	**1.4**	ug/m3	1.2	0.49	1.39		02/17/16 16:58	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-4 **Lab ID: 10337978004** Collected: 02/08/16 10:32 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**34.5**	ug/m3	3.4	1.2	1.39		02/17/16 17:25	67-64-1	
Benzene	**1.4**	ug/m3	0.45	0.17	1.39		02/17/16 17:25	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/17/16 17:25	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/17/16 17:25	75-27-4	
Bromoform	ND	ug/m3	14.6	1.3	1.39		02/17/16 17:25	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/17/16 17:25	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/17/16 17:25	106-99-0	
2-Butanone (MEK)	**5.4**	ug/m3	4.2	0.32	1.39		02/17/16 17:25	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/17/16 17:25	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/17/16 17:25	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/17/16 17:25	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/17/16 17:25	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/17/16 17:25	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/17/16 17:25	74-87-3	
Cyclohexane	**22.6**	ug/m3	0.97	0.44	1.39		02/17/16 17:25	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/17/16 17:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/17/16 17:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/17/16 17:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/17/16 17:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/17/16 17:25	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.4	0.67	1.39		02/17/16 17:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/17/16 17:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/17/16 17:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/17/16 17:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/17/16 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/17/16 17:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/17/16 17:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/17/16 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/17/16 17:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/17/16 17:25	76-14-2	
Ethanol	**51.7**	ug/m3	1.3	0.37	1.39		02/17/16 17:25	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/17/16 17:25	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		02/17/16 17:25	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		02/17/16 17:25	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		02/17/16 17:25	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/17/16 17:25	87-68-3	
n-Hexane	**677**	ug/m3	10.0	5.0	13.9		02/18/16 19:18	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/17/16 17:25	591-78-6	
Methylene Chloride	**264**	ug/m3	4.9	0.75	1.39		02/17/16 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/17/16 17:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/17/16 17:25	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		02/17/16 17:25	91-20-3	
2-Propanol	**39.0**	ug/m3	3.5	0.33	1.39		02/17/16 17:25	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/17/16 17:25	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/17/16 17:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/17/16 17:25	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-4 **Lab ID: 10337978004** Collected: 02/08/16 10:32 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.96	0.39	1.39		02/17/16 17:25	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		02/17/16 17:25	109-99-9	
Toluene	**547**	ug/m3	10.7	2.1	13.9		02/18/16 19:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/17/16 17:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		02/17/16 17:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/17/16 17:25	79-00-5	
Trichloroethene	**10.0**	ug/m3	0.76	0.38	1.39		02/17/16 17:25	79-01-6	
Trichlorofluoromethane	**6.2**	ug/m3	1.6	0.18	1.39		02/17/16 17:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/17/16 17:25	76-13-1	
1,2,4-Trimethylbenzene	**1.5**	ug/m3	1.4	0.17	1.39		02/17/16 17:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		02/17/16 17:25	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		02/17/16 17:25	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/17/16 17:25	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.1	1.39		02/17/16 17:25	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.49	1.39		02/17/16 17:25	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-5 **Lab ID: 10337978005** Collected: 02/08/16 10:49 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**34.4**	ug/m3	3.2	1.1	1.34		02/17/16 17:52	67-64-1	
Benzene	**1.5**	ug/m3	0.44	0.16	1.34		02/17/16 17:52	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		02/17/16 17:52	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		02/17/16 17:52	75-27-4	
Bromoform	ND	ug/m3	14.1	1.2	1.34		02/17/16 17:52	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		02/17/16 17:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		02/17/16 17:52	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.0	0.31	1.34		02/17/16 17:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		02/17/16 17:52	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		02/17/16 17:52	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		02/17/16 17:52	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		02/17/16 17:52	75-00-3	
Chloroform	**2.3**	ug/m3	0.66	0.25	1.34		02/17/16 17:52	67-66-3	
Chloromethane	ND	ug/m3	0.56	0.14	1.34		02/17/16 17:52	74-87-3	
Cyclohexane	**4.5**	ug/m3	0.94	0.42	1.34		02/17/16 17:52	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		02/17/16 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		02/17/16 17:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		02/17/16 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.71	1.34		02/17/16 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		02/17/16 17:52	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.4	0.64	1.34		02/17/16 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		02/17/16 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		02/17/16 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		02/17/16 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		02/17/16 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		02/17/16 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		02/17/16 17:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		02/17/16 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		02/17/16 17:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		02/17/16 17:52	76-14-2	
Ethanol	**32.6**	ug/m3	1.3	0.36	1.34		02/17/16 17:52	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		02/17/16 17:52	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.2	0.57	1.34		02/17/16 17:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.3	0.25	1.34		02/17/16 17:52	622-96-8	
n-Heptane	**1.4**	ug/m3	1.1	0.37	1.34		02/17/16 17:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		02/17/16 17:52	87-68-3	
n-Hexane	**189**	ug/m3	9.6	4.8	13.4		02/18/16 19:41	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		02/17/16 17:52	591-78-6	
Methylene Chloride	**39.2**	ug/m3	4.7	0.73	1.34		02/17/16 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		02/17/16 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		02/17/16 17:52	1634-04-4	
Naphthalene	ND	ug/m3	3.6	0.41	1.34		02/17/16 17:52	91-20-3	
2-Propanol	**35.1**	ug/m3	3.4	0.32	1.34		02/17/16 17:52	67-63-0	
Propylene	ND	ug/m3	0.47	0.18	1.34		02/17/16 17:52	115-07-1	
Styrene	ND	ug/m3	1.2	0.26	1.34		02/17/16 17:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		02/17/16 17:52	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-5 **Lab ID: 10337978005** Collected: 02/08/16 10:49 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.92	0.37	1.34		02/17/16 17:52	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		02/17/16 17:52	109-99-9	
Toluene	**429**	ug/m3	10.3	2.1	13.4		02/18/16 19:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.2	1.34		02/17/16 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		02/17/16 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		02/17/16 17:52	79-00-5	
Trichloroethene	**14.3**	ug/m3	0.74	0.37	1.34		02/17/16 17:52	79-01-6	
Trichlorofluoromethane	**3.4**	ug/m3	1.5	0.18	1.34		02/17/16 17:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		02/17/16 17:52	76-13-1	
1,2,4-Trimethylbenzene	**1.9**	ug/m3	1.3	0.17	1.34		02/17/16 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.25	1.34		02/17/16 17:52	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		02/17/16 17:52	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		02/17/16 17:52	75-01-4	
m&p-Xylene	**4.8**	ug/m3	2.4	1.1	1.34		02/17/16 17:52	179601-23-1	
o-Xylene	**1.9**	ug/m3	1.2	0.47	1.34		02/17/16 17:52	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-1 **Lab ID: 10337978006** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**115**	ug/m3	3.2	1.1	1.34		02/17/16 18:41	67-64-1	
Benzene	**1.5**	ug/m3	0.44	0.16	1.34		02/17/16 18:41	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		02/17/16 18:41	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		02/17/16 18:41	75-27-4	
Bromoform	ND	ug/m3	14.1	1.2	1.34		02/17/16 18:41	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		02/17/16 18:41	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		02/17/16 18:41	106-99-0	
2-Butanone (MEK)	**8.0**	ug/m3	4.0	0.31	1.34		02/17/16 18:41	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		02/17/16 18:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		02/17/16 18:41	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		02/17/16 18:41	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		02/17/16 18:41	75-00-3	
Chloroform	ND	ug/m3	0.66	0.25	1.34		02/17/16 18:41	67-66-3	
Chloromethane	ND	ug/m3	0.56	0.14	1.34		02/17/16 18:41	74-87-3	
Cyclohexane	**54.4**	ug/m3	0.94	0.42	1.34		02/17/16 18:41	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		02/17/16 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		02/17/16 18:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		02/17/16 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.71	1.34		02/17/16 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		02/17/16 18:41	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.4	0.64	1.34		02/17/16 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		02/17/16 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		02/17/16 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		02/17/16 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		02/17/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		02/17/16 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		02/17/16 18:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		02/17/16 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		02/17/16 18:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		02/17/16 18:41	76-14-2	
Ethanol	**30.2**	ug/m3	1.3	0.36	1.34		02/17/16 18:41	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		02/17/16 18:41	141-78-6	
Ethylbenzene	**3.5**	ug/m3	1.2	0.57	1.34		02/17/16 18:41	100-41-4	
4-Ethyltoluene	**18.4**	ug/m3	1.3	0.25	1.34		02/17/16 18:41	622-96-8	
n-Heptane	**3.4**	ug/m3	1.1	0.37	1.34		02/17/16 18:41	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		02/17/16 18:41	87-68-3	
n-Hexane	**692**	ug/m3	19.3	9.6	26.8		02/18/16 17:45	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		02/17/16 18:41	591-78-6	
Methylene Chloride	**1700**	ug/m3	94.6	14.5	26.8		02/18/16 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		02/17/16 18:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		02/17/16 18:41	1634-04-4	
Naphthalene	ND	ug/m3	3.6	0.41	1.34		02/17/16 18:41	91-20-3	
2-Propanol	ND	ug/m3	3.4	0.32	1.34		02/17/16 18:41	67-63-0	
Propylene	ND	ug/m3	0.47	0.18	1.34		02/17/16 18:41	115-07-1	
Styrene	**2.8**	ug/m3	1.2	0.26	1.34		02/17/16 18:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		02/17/16 18:41	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-1 **Lab ID: 10337978006** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.92	0.37	1.34		02/17/16 18:41	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		02/17/16 18:41	109-99-9	
Toluene	**1550**	ug/m3	20.6	4.1	26.8		02/18/16 17:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.2	1.34		02/17/16 18:41	120-82-1	
1,1,1-Trichloroethane	**5.7**	ug/m3	1.5	0.33	1.34		02/17/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		02/17/16 18:41	79-00-5	
Trichloroethene	**109**	ug/m3	0.74	0.37	1.34		02/17/16 18:41	79-01-6	
Trichlorofluoromethane	**8.0**	ug/m3	1.5	0.18	1.34		02/17/16 18:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		02/17/16 18:41	76-13-1	
1,2,4-Trimethylbenzene	**41.5**	ug/m3	1.3	0.17	1.34		02/17/16 18:41	95-63-6	
1,3,5-Trimethylbenzene	**14.1**	ug/m3	1.3	0.25	1.34		02/17/16 18:41	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		02/17/16 18:41	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		02/17/16 18:41	75-01-4	
m&p-Xylene	**10.1**	ug/m3	2.4	1.1	1.34		02/17/16 18:41	179601-23-1	
o-Xylene	**4.8**	ug/m3	1.2	0.47	1.34		02/17/16 18:41	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-2 **Lab ID: 10337978007** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**35.2**	ug/m3	3.6	1.2	1.49		02/17/16 19:09	67-64-1	
Benzene	**0.91**	ug/m3	0.48	0.18	1.49		02/17/16 19:09	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.25	1.49		02/17/16 19:09	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		02/17/16 19:09	75-27-4	
Bromoform	ND	ug/m3	15.7	1.3	1.49		02/17/16 19:09	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		02/17/16 19:09	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		02/17/16 19:09	106-99-0	
2-Butanone (MEK)	**9.9**	ug/m3	4.5	0.34	1.49		02/17/16 19:09	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		02/17/16 19:09	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		02/17/16 19:09	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		02/17/16 19:09	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		02/17/16 19:09	75-00-3	
Chloroform	ND	ug/m3	0.74	0.28	1.49		02/17/16 19:09	67-66-3	
Chloromethane	**2.4**	ug/m3	0.63	0.16	1.49		02/17/16 19:09	74-87-3	
Cyclohexane	**3.1**	ug/m3	1.0	0.47	1.49		02/17/16 19:09	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		02/17/16 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		02/17/16 19:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.49		02/17/16 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.79	1.49		02/17/16 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.49		02/17/16 19:09	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.5	0.72	1.49		02/17/16 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		02/17/16 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		02/17/16 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		02/17/16 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		02/17/16 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		02/17/16 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		02/17/16 19:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		02/17/16 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.39	1.49		02/17/16 19:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		02/17/16 19:09	76-14-2	
Ethanol	**52.4**	ug/m3	1.4	0.39	1.49		02/17/16 19:09	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.52	1.49		02/17/16 19:09	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.63	1.49		02/17/16 19:09	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.5	0.28	1.49		02/17/16 19:09	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.42	1.49		02/17/16 19:09	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	0.97	1.49		02/17/16 19:09	87-68-3	
n-Hexane	**54.1**	ug/m3	1.1	0.53	1.49		02/17/16 19:09	110-54-3	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		02/17/16 19:09	591-78-6	
Methylene Chloride	**280**	ug/m3	5.3	0.81	1.49		02/17/16 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		02/17/16 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		02/17/16 19:09	1634-04-4	
Naphthalene	ND	ug/m3	4.0	0.45	1.49		02/17/16 19:09	91-20-3	
2-Propanol	**5.4**	ug/m3	3.7	0.36	1.49		02/17/16 19:09	67-63-0	
Propylene	ND	ug/m3	0.52	0.20	1.49		02/17/16 19:09	115-07-1	
Styrene	ND	ug/m3	1.3	0.29	1.49		02/17/16 19:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		02/17/16 19:09	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-2 **Lab ID: 10337978007** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		02/17/16 19:09	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		02/17/16 19:09	109-99-9	
Toluene	**85.0**	ug/m3	1.1	0.23	1.49		02/17/16 19:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.6	1.4	1.49		02/17/16 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.37	1.49		02/17/16 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		02/17/16 19:09	79-00-5	
Trichloroethene	**4.7**	ug/m3	0.82	0.41	1.49		02/17/16 19:09	79-01-6	
Trichlorofluoromethane	**1.9**	ug/m3	1.7	0.20	1.49		02/17/16 19:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		02/17/16 19:09	76-13-1	
1,2,4-Trimethylbenzene	**2.8**	ug/m3	1.5	0.19	1.49		02/17/16 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.27	1.49		02/17/16 19:09	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.49	1.49		02/17/16 19:09	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		02/17/16 19:09	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.2	1.49		02/17/16 19:09	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.52	1.49		02/17/16 19:09	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-3 **Lab ID: 10337978008** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**37.2**	ug/m3	3.5	1.2	1.44		02/17/16 20:05	67-64-1	
Benzene	**0.49**	ug/m3	0.47	0.18	1.44		02/17/16 20:05	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.24	1.44		02/17/16 20:05	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		02/17/16 20:05	75-27-4	
Bromoform	ND	ug/m3	15.1	1.3	1.44		02/17/16 20:05	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		02/17/16 20:05	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		02/17/16 20:05	106-99-0	
2-Butanone (MEK)	**11.8**	ug/m3	4.3	0.33	1.44		02/17/16 20:05	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		02/17/16 20:05	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		02/17/16 20:05	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		02/17/16 20:05	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		02/17/16 20:05	75-00-3	
Chloroform	ND	ug/m3	0.71	0.27	1.44		02/17/16 20:05	67-66-3	
Chloromethane	**1.1**	ug/m3	0.60	0.16	1.44		02/17/16 20:05	74-87-3	
Cyclohexane	**3.6**	ug/m3	1.0	0.46	1.44		02/17/16 20:05	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		02/17/16 20:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		02/17/16 20:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		02/17/16 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.44		02/17/16 20:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		02/17/16 20:05	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.5	0.69	1.44		02/17/16 20:05	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		02/17/16 20:05	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		02/17/16 20:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		02/17/16 20:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		02/17/16 20:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		02/17/16 20:05	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		02/17/16 20:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		02/17/16 20:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.37	1.44		02/17/16 20:05	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		02/17/16 20:05	76-14-2	
Ethanol	**71.2**	ug/m3	1.4	0.38	1.44		02/17/16 20:05	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		02/17/16 20:05	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.61	1.44		02/17/16 20:05	100-41-4	
4-Ethyltoluene	**1.6**	ug/m3	1.4	0.27	1.44		02/17/16 20:05	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		02/17/16 20:05	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		02/17/16 20:05	87-68-3	
n-Hexane	**53.0**	ug/m3	1.0	0.51	1.44		02/17/16 20:05	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		02/17/16 20:05	591-78-6	
Methylene Chloride	**121**	ug/m3	5.1	0.78	1.44		02/17/16 20:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		02/17/16 20:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		02/17/16 20:05	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		02/17/16 20:05	91-20-3	
2-Propanol	**26.4**	ug/m3	3.6	0.35	1.44		02/17/16 20:05	67-63-0	
Propylene	ND	ug/m3	0.50	0.19	1.44		02/17/16 20:05	115-07-1	
Styrene	ND	ug/m3	1.3	0.28	1.44		02/17/16 20:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		02/17/16 20:05	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-3 **Lab ID: 10337978008** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.99	0.40	1.44		02/17/16 20:05	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		02/17/16 20:05	109-99-9	
Toluene	**116**	ug/m3	1.1	0.22	1.44		02/17/16 20:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		02/17/16 20:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		02/17/16 20:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		02/17/16 20:05	79-00-5	
Trichloroethene	**7.0**	ug/m3	0.79	0.40	1.44		02/17/16 20:05	79-01-6	
Trichlorofluoromethane	**1.6**	ug/m3	1.6	0.19	1.44		02/17/16 20:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		02/17/16 20:05	76-13-1	
1,2,4-Trimethylbenzene	**3.4**	ug/m3	1.4	0.18	1.44		02/17/16 20:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.26	1.44		02/17/16 20:05	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		02/17/16 20:05	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		02/17/16 20:05	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.1	1.44		02/17/16 20:05	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.51	1.44		02/17/16 20:05	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-4 **Lab ID: 10337978009** Collected: 02/09/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**89.6**	ug/m3	3.9	1.3	1.61		02/17/16 20:31	67-64-1	
Benzene	**2.1**	ug/m3	0.52	0.20	1.61		02/17/16 20:31	71-43-2	
Benzyl chloride	ND	ug/m3	1.7	0.27	1.61		02/17/16 20:31	100-44-7	
Bromodichloromethane	ND	ug/m3	2.2	0.31	1.61		02/17/16 20:31	75-27-4	
Bromoform	ND	ug/m3	16.9	1.5	1.61		02/17/16 20:31	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.50	1.61		02/17/16 20:31	74-83-9	
1,3-Butadiene	ND	ug/m3	0.72	0.28	1.61		02/17/16 20:31	106-99-0	
2-Butanone (MEK)	**49.3**	ug/m3	4.8	0.37	1.61		02/17/16 20:31	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	0.16	1.61		02/17/16 20:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.0	0.31	1.61		02/17/16 20:31	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.22	1.61		02/17/16 20:31	108-90-7	
Chloroethane	ND	ug/m3	0.87	0.31	1.61		02/17/16 20:31	75-00-3	
Chloroform	ND	ug/m3	0.80	0.31	1.61		02/17/16 20:31	67-66-3	
Chloromethane	ND	ug/m3	0.68	0.17	1.61		02/17/16 20:31	74-87-3	
Cyclohexane	**33.8**	ug/m3	1.1	0.51	1.61		02/17/16 20:31	110-82-7	
Dibromochloromethane	ND	ug/m3	2.8	1.4	1.61		02/17/16 20:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.2	1.61		02/17/16 20:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	0.82	1.61		02/17/16 20:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	0.85	1.61		02/17/16 20:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	0.80	1.61		02/17/16 20:31	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.6	0.77	1.61		02/17/16 20:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.25	1.61		02/17/16 20:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.66	0.33	1.61		02/17/16 20:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.38	1.61		02/17/16 20:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.40	1.61		02/17/16 20:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.62	1.61		02/17/16 20:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.43	1.61		02/17/16 20:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	0.59	1.61		02/17/16 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	0.42	1.61		02/17/16 20:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.3	0.50	1.61		02/17/16 20:31	76-14-2	
Ethanol	**80.2**	ug/m3	1.5	0.43	1.61		02/17/16 20:31	64-17-5	
Ethyl acetate	ND	ug/m3	1.2	0.56	1.61		02/17/16 20:31	141-78-6	
Ethylbenzene	**2.9**	ug/m3	1.4	0.68	1.61		02/17/16 20:31	100-41-4	
4-Ethyltoluene	**10.7**	ug/m3	1.6	0.30	1.61		02/17/16 20:31	622-96-8	
n-Heptane	**2.7**	ug/m3	1.3	0.45	1.61		02/17/16 20:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.0	1.61		02/17/16 20:31	87-68-3	
n-Hexane	**470**	ug/m3	11.6	5.7	16.1		02/18/16 20:03	110-54-3	
2-Hexanone	ND	ug/m3	6.7	0.66	1.61		02/17/16 20:31	591-78-6	
Methylene Chloride	**1150**	ug/m3	56.8	8.7	16.1		02/18/16 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.7	0.35	1.61		02/17/16 20:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.9	0.49	1.61		02/17/16 20:31	1634-04-4	
Naphthalene	ND	ug/m3	4.3	0.49	1.61		02/17/16 20:31	91-20-3	
2-Propanol	**5.2**	ug/m3	4.0	0.39	1.61		02/17/16 20:31	67-63-0	
Propylene	ND	ug/m3	0.56	0.22	1.61		02/17/16 20:31	115-07-1	
Styrene	**3.3**	ug/m3	1.4	0.31	1.61		02/17/16 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.53	1.61		02/17/16 20:31	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-4 **Lab ID: 10337978009** Collected: 02/09/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.1	0.45	1.61		02/17/16 20:31	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.97	0.19	1.61		02/17/16 20:31	109-99-9	
Toluene	**1000**	ug/m3	12.4	2.5	16.1		02/18/16 20:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.1	1.5	1.61		02/17/16 20:31	120-82-1	
1,1,1-Trichloroethane	**2.9**	ug/m3	1.8	0.40	1.61		02/17/16 20:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.89	0.40	1.61		02/17/16 20:31	79-00-5	
Trichloroethene	**54.8**	ug/m3	0.89	0.44	1.61		02/17/16 20:31	79-01-6	
Trichlorofluoromethane	**8.7**	ug/m3	1.8	0.21	1.61		02/17/16 20:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.6	0.48	1.61		02/17/16 20:31	76-13-1	
1,2,4-Trimethylbenzene	**24.2**	ug/m3	1.6	0.20	1.61		02/17/16 20:31	95-63-6	
1,3,5-Trimethylbenzene	**8.2**	ug/m3	1.6	0.29	1.61		02/17/16 20:31	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	0.53	1.61		02/17/16 20:31	108-05-4	
Vinyl chloride	ND	ug/m3	0.42	0.31	1.61		02/17/16 20:31	75-01-4	
m&p-Xylene	**8.6**	ug/m3	2.8	1.3	1.61		02/17/16 20:31	179601-23-1	
o-Xylene	**3.6**	ug/m3	1.4	0.57	1.61		02/17/16 20:31	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: AA-1 **Lab ID: 10337978010** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.8**	ug/m3	3.2	1.1	1.34		02/17/16 20:58	67-64-1	
Benzene	ND	ug/m3	0.44	0.16	1.34		02/17/16 20:58	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		02/17/16 20:58	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		02/17/16 20:58	75-27-4	
Bromoform	ND	ug/m3	14.1	1.2	1.34		02/17/16 20:58	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		02/17/16 20:58	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		02/17/16 20:58	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.0	0.31	1.34		02/17/16 20:58	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		02/17/16 20:58	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		02/17/16 20:58	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		02/17/16 20:58	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		02/17/16 20:58	75-00-3	
Chloroform	ND	ug/m3	0.66	0.25	1.34		02/17/16 20:58	67-66-3	
Chloromethane	**0.82**	ug/m3	0.56	0.14	1.34		02/17/16 20:58	74-87-3	
Cyclohexane	**1.3**	ug/m3	0.94	0.42	1.34		02/17/16 20:58	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		02/17/16 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		02/17/16 20:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		02/17/16 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.71	1.34		02/17/16 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		02/17/16 20:58	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.4	0.64	1.34		02/17/16 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		02/17/16 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		02/17/16 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		02/17/16 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		02/17/16 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		02/17/16 20:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		02/17/16 20:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		02/17/16 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		02/17/16 20:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		02/17/16 20:58	76-14-2	
Ethanol	**15.6**	ug/m3	1.3	0.36	1.34		02/17/16 20:58	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		02/17/16 20:58	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.57	1.34		02/17/16 20:58	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.3	0.25	1.34		02/17/16 20:58	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.37	1.34		02/17/16 20:58	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		02/17/16 20:58	87-68-3	
n-Hexane	**25.9**	ug/m3	0.96	0.48	1.34		02/17/16 20:58	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		02/17/16 20:58	591-78-6	
Methylene Chloride	ND	ug/m3	4.7	0.73	1.34		02/17/16 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		02/17/16 20:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		02/17/16 20:58	1634-04-4	
Naphthalene	ND	ug/m3	3.6	0.41	1.34		02/17/16 20:58	91-20-3	
2-Propanol	**7.3**	ug/m3	3.4	0.32	1.34		02/17/16 20:58	67-63-0	
Propylene	ND	ug/m3	0.47	0.18	1.34		02/17/16 20:58	115-07-1	
Styrene	ND	ug/m3	1.2	0.26	1.34		02/17/16 20:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		02/17/16 20:58	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: AA-1 **Lab ID: 10337978010** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.92	0.37	1.34		02/17/16 20:58	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		02/17/16 20:58	109-99-9	
Toluene	**28.4**	ug/m3	1.0	0.21	1.34		02/17/16 20:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.2	1.34		02/17/16 20:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		02/17/16 20:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		02/17/16 20:58	79-00-5	
Trichloroethene	ND	ug/m3	0.74	0.37	1.34		02/17/16 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.18	1.34		02/17/16 20:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		02/17/16 20:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.17	1.34		02/17/16 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.25	1.34		02/17/16 20:58	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		02/17/16 20:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		02/17/16 20:58	75-01-4	
m&p-Xylene	ND	ug/m3	2.4	1.1	1.34		02/17/16 20:58	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.47	1.34		02/17/16 20:58	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-1 Can Cert **Lab ID: 10337978011** Collected: 02/08/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/23/16 18:08	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/23/16 18:08	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		01/23/16 18:08	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		01/23/16 18:08	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		01/23/16 18:08	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/23/16 18:08	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/23/16 18:08	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/23/16 18:08	78-93-3	
Carbon disulfide	ND	ug/m3	1.6	0.038	1		01/23/16 18:08	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		01/23/16 18:08	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/23/16 18:08	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/23/16 18:08	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/23/16 18:08	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		01/23/16 18:08	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/23/16 18:08	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		01/23/16 18:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/23/16 18:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/23/16 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/23/16 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		01/23/16 18:08	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/23/16 18:08	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/23/16 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		01/23/16 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/23/16 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/23/16 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/23/16 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/23/16 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/23/16 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/23/16 18:08	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/23/16 18:08	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		01/23/16 18:08	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/23/16 18:08	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/23/16 18:08	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/23/16 18:08	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/23/16 18:08	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/23/16 18:08	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		01/23/16 18:08	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/23/16 18:08	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/23/16 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/23/16 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/23/16 18:08	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/23/16 18:08	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/23/16 18:08	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/23/16 18:08	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/23/16 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		01/23/16 18:08	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-1 Can Cert **Lab ID: 10337978011** Collected: 02/08/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		01/23/16 18:08	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/23/16 18:08	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/23/16 18:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/23/16 18:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/23/16 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		01/23/16 18:08	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/23/16 18:08	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/23/16 18:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/23/16 18:08	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/23/16 18:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/23/16 18:08	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/23/16 18:08	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		01/23/16 18:08	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/23/16 18:08	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/23/16 18:08	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-2 Can Cert **Lab ID: 10337978012** Collected: 02/08/16 10:31 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		01/31/16 11:12	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		01/31/16 11:12	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		01/31/16 11:12	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		01/31/16 11:12	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		01/31/16 11:12	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		01/31/16 11:12	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		01/31/16 11:12	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		01/31/16 11:12	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		01/31/16 11:12	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		01/31/16 11:12	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		01/31/16 11:12	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		01/31/16 11:12	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		01/31/16 11:12	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		01/31/16 11:12	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		01/31/16 11:12	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		01/31/16 11:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		01/31/16 11:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		01/31/16 11:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		01/31/16 11:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		01/31/16 11:12	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		01/31/16 11:12	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		01/31/16 11:12	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		01/31/16 11:12	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		01/31/16 11:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		01/31/16 11:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		01/31/16 11:12	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		01/31/16 11:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		01/31/16 11:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		01/31/16 11:12	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		01/31/16 11:12	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		01/31/16 11:12	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		01/31/16 11:12	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		01/31/16 11:12	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		01/31/16 11:12	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		01/31/16 11:12	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		01/31/16 11:12	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		01/31/16 11:12	110-54-3	
2-Hexanone	ND	ug/m3	10.4	0.41	1		01/31/16 11:12	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		01/31/16 11:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		01/31/16 11:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		01/31/16 11:12	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		01/31/16 11:12	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		01/31/16 11:12	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		01/31/16 11:12	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		01/31/16 11:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		01/31/16 11:12	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-2 Can Cert **Lab ID: 10337978012** Collected: 02/08/16 10:31 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		01/31/16 11:12	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		01/31/16 11:12	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		01/31/16 11:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		01/31/16 11:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		01/31/16 11:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		01/31/16 11:12	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		01/31/16 11:12	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		01/31/16 11:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		01/31/16 11:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		01/31/16 11:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		01/31/16 11:12	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		01/31/16 11:12	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		01/31/16 11:12	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		01/31/16 11:12	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		01/31/16 11:12	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-3 Can Cert **Lab ID: 10337978013** Collected: 02/08/16 10:35 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/30/16 20:02	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/30/16 20:02	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		01/30/16 20:02	100-44-7	
Bromodichloromethane	ND	ug/m3	3.4	0.070	1		01/30/16 20:02	75-27-4	
Bromoform	ND	ug/m3	5.3	0.11	1		01/30/16 20:02	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/30/16 20:02	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/30/16 20:02	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/30/16 20:02	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		01/30/16 20:02	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.068	1		01/30/16 20:02	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/30/16 20:02	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/30/16 20:02	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/30/16 20:02	67-66-3	
Chloromethane	ND	ug/m3	1.0	0.021	1		01/30/16 20:02	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/30/16 20:02	110-82-7	
Dibromochloromethane	ND	ug/m3	4.3	0.87	1		01/30/16 20:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/30/16 20:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		01/30/16 20:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/30/16 20:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.1	0.062	1		01/30/16 20:02	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/30/16 20:02	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/30/16 20:02	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.82	0.046	1		01/30/16 20:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/30/16 20:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 20:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 20:02	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/30/16 20:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		01/30/16 20:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/30/16 20:02	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/30/16 20:02	76-14-2	
Ethanol	ND	ug/m3	4.8	0.96	1		01/30/16 20:02	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/30/16 20:02	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/30/16 20:02	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/30/16 20:02	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/30/16 20:02	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/30/16 20:02	87-68-3	
n-Hexane	ND	ug/m3	1.8	0.055	1		01/30/16 20:02	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/30/16 20:02	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/30/16 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/30/16 20:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/30/16 20:02	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/30/16 20:02	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/30/16 20:02	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/30/16 20:02	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/30/16 20:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.5	0.35	1		01/30/16 20:02	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-3 Can Cert **Lab ID: 10337978013** Collected: 02/08/16 10:35 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.4	0.34	1		01/30/16 20:02	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/30/16 20:02	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/30/16 20:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/30/16 20:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/30/16 20:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.8	0.056	1		01/30/16 20:02	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/30/16 20:02	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/30/16 20:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/30/16 20:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/30/16 20:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/30/16 20:02	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/30/16 20:02	108-05-4	
Vinyl chloride	ND	ug/m3	0.52	0.027	1		01/30/16 20:02	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/30/16 20:02	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/30/16 20:02	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-4 Can Cert **Lab ID: 10337978014** Collected: 02/08/16 10:32 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/30/16 23:43	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/30/16 23:43	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		01/30/16 23:43	100-44-7	
Bromodichloromethane	ND	ug/m3	3.4	0.070	1		01/30/16 23:43	75-27-4	
Bromoform	ND	ug/m3	5.3	0.11	1		01/30/16 23:43	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/30/16 23:43	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/30/16 23:43	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/30/16 23:43	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		01/30/16 23:43	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.068	1		01/30/16 23:43	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/30/16 23:43	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/30/16 23:43	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/30/16 23:43	67-66-3	
Chloromethane	ND	ug/m3	1.0	0.021	1		01/30/16 23:43	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/30/16 23:43	110-82-7	
Dibromochloromethane	ND	ug/m3	4.3	0.87	1		01/30/16 23:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/30/16 23:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		01/30/16 23:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/30/16 23:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.1	0.062	1		01/30/16 23:43	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/30/16 23:43	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/30/16 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.82	0.046	1		01/30/16 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/30/16 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/30/16 23:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		01/30/16 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/30/16 23:43	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/30/16 23:43	76-14-2	
Ethanol	ND	ug/m3	4.8	0.96	1		01/30/16 23:43	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/30/16 23:43	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/30/16 23:43	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/30/16 23:43	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/30/16 23:43	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/30/16 23:43	87-68-3	
n-Hexane	ND	ug/m3	1.8	0.055	1		01/30/16 23:43	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/30/16 23:43	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/30/16 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/30/16 23:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/30/16 23:43	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/30/16 23:43	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/30/16 23:43	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/30/16 23:43	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/30/16 23:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.5	0.35	1		01/30/16 23:43	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-4 Can Cert **Lab ID: 10337978014** Collected: 02/08/16 10:32 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.4	0.34	1		01/30/16 23:43	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/30/16 23:43	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/30/16 23:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/30/16 23:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/30/16 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.8	0.056	1		01/30/16 23:43	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/30/16 23:43	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/30/16 23:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/30/16 23:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/30/16 23:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/30/16 23:43	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/30/16 23:43	108-05-4	
Vinyl chloride	ND	ug/m3	0.52	0.027	1		01/30/16 23:43	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/30/16 23:43	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/30/16 23:43	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-5 Can Cert **Lab ID: 10337978015** Collected: 02/08/16 10:49 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/30/16 21:36	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/30/16 21:36	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		01/30/16 21:36	100-44-7	
Bromodichloromethane	ND	ug/m3	3.4	0.070	1		01/30/16 21:36	75-27-4	
Bromoform	ND	ug/m3	5.3	0.11	1		01/30/16 21:36	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/30/16 21:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/30/16 21:36	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/30/16 21:36	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		01/30/16 21:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.068	1		01/30/16 21:36	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/30/16 21:36	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/30/16 21:36	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/30/16 21:36	67-66-3	
Chloromethane	ND	ug/m3	1.0	0.021	1		01/30/16 21:36	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/30/16 21:36	110-82-7	
Dibromochloromethane	ND	ug/m3	4.3	0.87	1		01/30/16 21:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/30/16 21:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		01/30/16 21:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/30/16 21:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.1	0.062	1		01/30/16 21:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/30/16 21:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/30/16 21:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.82	0.046	1		01/30/16 21:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/30/16 21:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 21:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/30/16 21:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/30/16 21:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		01/30/16 21:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/30/16 21:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/30/16 21:36	76-14-2	
Ethanol	ND	ug/m3	4.8	0.96	1		01/30/16 21:36	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/30/16 21:36	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/30/16 21:36	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/30/16 21:36	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/30/16 21:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/30/16 21:36	87-68-3	
n-Hexane	ND	ug/m3	1.8	0.055	1		01/30/16 21:36	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/30/16 21:36	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/30/16 21:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/30/16 21:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/30/16 21:36	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/30/16 21:36	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/30/16 21:36	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/30/16 21:36	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/30/16 21:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.5	0.35	1		01/30/16 21:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: SSV-5 Can Cert **Lab ID: 10337978015** Collected: 02/08/16 10:49 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.4	0.34	1		01/30/16 21:36	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/30/16 21:36	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/30/16 21:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/30/16 21:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/30/16 21:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.8	0.056	1		01/30/16 21:36	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/30/16 21:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/30/16 21:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/30/16 21:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/30/16 21:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/30/16 21:36	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/30/16 21:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.52	0.027	1		01/30/16 21:36	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/30/16 21:36	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/30/16 21:36	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-1 Can Cert **Lab ID: 10337978016** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		02/01/16 13:49	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		02/01/16 13:49	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		02/01/16 13:49	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		02/01/16 13:49	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		02/01/16 13:49	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		02/01/16 13:49	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		02/01/16 13:49	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		02/01/16 13:49	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		02/01/16 13:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		02/01/16 13:49	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		02/01/16 13:49	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		02/01/16 13:49	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		02/01/16 13:49	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		02/01/16 13:49	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		02/01/16 13:49	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		02/01/16 13:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		02/01/16 13:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		02/01/16 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		02/01/16 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		02/01/16 13:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		02/01/16 13:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		02/01/16 13:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		02/01/16 13:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		02/01/16 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		02/01/16 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		02/01/16 13:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		02/01/16 13:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		02/01/16 13:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		02/01/16 13:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		02/01/16 13:49	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		02/01/16 13:49	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		02/01/16 13:49	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		02/01/16 13:49	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		02/01/16 13:49	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		02/01/16 13:49	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		02/01/16 13:49	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		02/01/16 13:49	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		02/01/16 13:49	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		02/01/16 13:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		02/01/16 13:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		02/01/16 13:49	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		02/01/16 13:49	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		02/01/16 13:49	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		02/01/16 13:49	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		02/01/16 13:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		02/01/16 13:49	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-1 Can Cert **Lab ID: 10337978016** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		02/01/16 13:49	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		02/01/16 13:49	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		02/01/16 13:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		02/01/16 13:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		02/01/16 13:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		02/01/16 13:49	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		02/01/16 13:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		02/01/16 13:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		02/01/16 13:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		02/01/16 13:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		02/01/16 13:49	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		02/01/16 13:49	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		02/01/16 13:49	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		02/01/16 13:49	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		02/01/16 13:49	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-2 Can Cert **Lab ID: 10337978017** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/22/16 23:36	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/22/16 23:36	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		01/22/16 23:36	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		01/22/16 23:36	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		01/22/16 23:36	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/22/16 23:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/22/16 23:36	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/22/16 23:36	78-93-3	
Carbon disulfide	ND	ug/m3	1.6	0.038	1		01/22/16 23:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		01/22/16 23:36	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/22/16 23:36	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/22/16 23:36	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/22/16 23:36	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		01/22/16 23:36	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/22/16 23:36	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		01/22/16 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/22/16 23:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/22/16 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/22/16 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		01/22/16 23:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/22/16 23:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/22/16 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		01/22/16 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/22/16 23:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/22/16 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/22/16 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/22/16 23:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/22/16 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/22/16 23:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/22/16 23:36	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		01/22/16 23:36	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/22/16 23:36	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/22/16 23:36	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/22/16 23:36	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/22/16 23:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/22/16 23:36	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		01/22/16 23:36	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/22/16 23:36	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/22/16 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/22/16 23:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/22/16 23:36	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/22/16 23:36	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/22/16 23:36	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/22/16 23:36	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/22/16 23:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		01/22/16 23:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-2 Can Cert **Lab ID: 10337978017** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		01/22/16 23:36	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/22/16 23:36	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/22/16 23:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/22/16 23:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/22/16 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		01/22/16 23:36	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/22/16 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/22/16 23:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/22/16 23:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/22/16 23:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/22/16 23:36	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/22/16 23:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		01/22/16 23:36	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/22/16 23:36	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/22/16 23:36	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-3 Can Cert **Lab ID: 10337978018** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		01/27/16 15:46	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		01/27/16 15:46	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		01/27/16 15:46	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		01/27/16 15:46	75-27-4	
Bromoform	ND	ug/m3	10.5	0.90	1		01/27/16 15:46	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		01/27/16 15:46	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		01/27/16 15:46	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		01/27/16 15:46	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		01/27/16 15:46	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		01/27/16 15:46	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		01/27/16 15:46	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		01/27/16 15:46	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		01/27/16 15:46	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		01/27/16 15:46	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		01/27/16 15:46	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		01/27/16 15:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		01/27/16 15:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		01/27/16 15:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		01/27/16 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		01/27/16 15:46	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		01/27/16 15:46	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		01/27/16 15:46	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		01/27/16 15:46	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		01/27/16 15:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		01/27/16 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		01/27/16 15:46	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		01/27/16 15:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		01/27/16 15:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		01/27/16 15:46	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		01/27/16 15:46	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		01/27/16 15:46	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		01/27/16 15:46	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		01/27/16 15:46	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		01/27/16 15:46	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		01/27/16 15:46	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		01/27/16 15:46	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		01/27/16 15:46	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		01/27/16 15:46	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		01/27/16 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		01/27/16 15:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		01/27/16 15:46	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		01/27/16 15:46	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		01/27/16 15:46	67-63-0	
Propylene	ND	ug/m3	0.88	0.14	1		01/27/16 15:46	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		01/27/16 15:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		01/27/16 15:46	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-3 Can Cert **Lab ID: 10337978018** Collected: 02/09/16 10:23 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		01/27/16 15:46	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		01/27/16 15:46	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		01/27/16 15:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		01/27/16 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		01/27/16 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		01/27/16 15:46	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		01/27/16 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		01/27/16 15:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		01/27/16 15:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		01/27/16 15:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		01/27/16 15:46	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.33	1		01/27/16 15:46	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		01/27/16 15:46	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		01/27/16 15:46	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		01/27/16 15:46	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-4 Can Cert **Lab ID: 10337978019** Collected: 02/09/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		02/01/16 13:22	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		02/01/16 13:22	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		02/01/16 13:22	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		02/01/16 13:22	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		02/01/16 13:22	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		02/01/16 13:22	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		02/01/16 13:22	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		02/01/16 13:22	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		02/01/16 13:22	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		02/01/16 13:22	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		02/01/16 13:22	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		02/01/16 13:22	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		02/01/16 13:22	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		02/01/16 13:22	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		02/01/16 13:22	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		02/01/16 13:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		02/01/16 13:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		02/01/16 13:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		02/01/16 13:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		02/01/16 13:22	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		02/01/16 13:22	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		02/01/16 13:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		02/01/16 13:22	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		02/01/16 13:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		02/01/16 13:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		02/01/16 13:22	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		02/01/16 13:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		02/01/16 13:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		02/01/16 13:22	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		02/01/16 13:22	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		02/01/16 13:22	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		02/01/16 13:22	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		02/01/16 13:22	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		02/01/16 13:22	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		02/01/16 13:22	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		02/01/16 13:22	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		02/01/16 13:22	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		02/01/16 13:22	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		02/01/16 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		02/01/16 13:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		02/01/16 13:22	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		02/01/16 13:22	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		02/01/16 13:22	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		02/01/16 13:22	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		02/01/16 13:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		02/01/16 13:22	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: IA-4 Can Cert **Lab ID: 10337978019** Collected: 02/09/16 10:30 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		02/01/16 13:22	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		02/01/16 13:22	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		02/01/16 13:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		02/01/16 13:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		02/01/16 13:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		02/01/16 13:22	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		02/01/16 13:22	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		02/01/16 13:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		02/01/16 13:22	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		02/01/16 13:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		02/01/16 13:22	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		02/01/16 13:22	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		02/01/16 13:22	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		02/01/16 13:22	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		02/01/16 13:22	95-47-6	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: AA-1 Can Cert **Lab ID: 10337978020** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		01/22/16 23:05	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		01/22/16 23:05	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		01/22/16 23:05	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		01/22/16 23:05	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		01/22/16 23:05	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		01/22/16 23:05	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		01/22/16 23:05	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		01/22/16 23:05	78-93-3	
Carbon disulfide	ND	ug/m3	1.6	0.038	1		01/22/16 23:05	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		01/22/16 23:05	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		01/22/16 23:05	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		01/22/16 23:05	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		01/22/16 23:05	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		01/22/16 23:05	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		01/22/16 23:05	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		01/22/16 23:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		01/22/16 23:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/22/16 23:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		01/22/16 23:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		01/22/16 23:05	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		01/22/16 23:05	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		01/22/16 23:05	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		01/22/16 23:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		01/22/16 23:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/22/16 23:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		01/22/16 23:05	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		01/22/16 23:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/22/16 23:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		01/22/16 23:05	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		01/22/16 23:05	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		01/22/16 23:05	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		01/22/16 23:05	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		01/22/16 23:05	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		01/22/16 23:05	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		01/22/16 23:05	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		01/22/16 23:05	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		01/22/16 23:05	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		01/22/16 23:05	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		01/22/16 23:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		01/22/16 23:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		01/22/16 23:05	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		01/22/16 23:05	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		01/22/16 23:05	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		01/22/16 23:05	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		01/22/16 23:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		01/22/16 23:05	79-34-5	

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ANALYTICAL RESULTS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Sample: AA-1 Can Cert **Lab ID: 10337978020** Collected: 02/09/16 10:18 Received: 02/09/16 11:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		01/22/16 23:05	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		01/22/16 23:05	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		01/22/16 23:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		01/22/16 23:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		01/22/16 23:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		01/22/16 23:05	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		01/22/16 23:05	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		01/22/16 23:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		01/22/16 23:05	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		01/22/16 23:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		01/22/16 23:05	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		01/22/16 23:05	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		01/22/16 23:05	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		01/22/16 23:05	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		01/22/16 23:05	95-47-6	

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QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

QC Batch: AIR/25246 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10337978001, 10337978002, 10337978003, 10337978004, 10337978005, 10337978006, 10337978007, 10337978008, 10337978009, 10337978010

METHOD BLANK: 2193629 Matrix: Air
Associated Lab Samples: 10337978001, 10337978002, 10337978003, 10337978004, 10337978005, 10337978006, 10337978007, 10337978008, 10337978009, 10337978010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	02/17/16 14:05	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	02/17/16 14:05	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	02/17/16 14:05	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	02/17/16 14:05	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	02/17/16 14:05	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	02/17/16 14:05	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	0.91	02/17/16 14:05	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	02/17/16 14:05	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	02/17/16 14:05	
1,2-Dichlorobenzene	ug/m3	ND	1.2	0.51	02/17/16 14:05	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	02/17/16 14:05	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	02/17/16 14:05	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	02/17/16 14:05	
1,3-Butadiene	ug/m3	ND	0.45	0.18	02/17/16 14:05	
1,3-Dichlorobenzene	ug/m3	ND	1.2	0.53	02/17/16 14:05	
1,4-Dichlorobenzene	ug/m3	ND	1.2	0.50	02/17/16 14:05	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	02/17/16 14:05	
2-Hexanone	ug/m3	ND	4.2	0.41	02/17/16 14:05	
2-Propanol	ug/m3	ND	2.5	0.24	02/17/16 14:05	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	02/17/16 14:05	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	02/17/16 14:05	
Acetone	ug/m3	ND	2.4	0.83	02/17/16 14:05	
Benzene	ug/m3	ND	0.32	0.12	02/17/16 14:05	
Benzyl chloride	ug/m3	ND	1.0	0.17	02/17/16 14:05	
Bromodichloromethane	ug/m3	ND	1.4	0.19	02/17/16 14:05	
Bromoform	ug/m3	ND	10.5	0.90	02/17/16 14:05	
Bromomethane	ug/m3	ND	0.79	0.31	02/17/16 14:05	
Carbon disulfide	ug/m3	ND	0.63	0.10	02/17/16 14:05	
Carbon tetrachloride	ug/m3	ND	0.64	0.19	02/17/16 14:05	
Chlorobenzene	ug/m3	ND	0.94	0.13	02/17/16 14:05	
Chloroethane	ug/m3	ND	0.54	0.19	02/17/16 14:05	
Chloroform	ug/m3	ND	0.50	0.19	02/17/16 14:05	
Chloromethane	ug/m3	ND	0.42	0.11	02/17/16 14:05	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	02/17/16 14:05	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	02/17/16 14:05	
Cyclohexane	ug/m3	ND	0.70	0.32	02/17/16 14:05	
Dibromochloromethane	ug/m3	ND	1.7	0.86	02/17/16 14:05	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	02/17/16 14:05	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	02/17/16 14:05	
Ethanol	ug/m3	ND	0.96	0.26	02/17/16 14:05	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

METHOD BLANK: 2193629 Matrix: Air

Associated Lab Samples: 10337978001, 10337978002, 10337978003, 10337978004, 10337978005, 10337978006, 10337978007, 10337978008, 10337978009, 10337978010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	0.35	02/17/16 14:05	
Ethylbenzene	ug/m3	ND	0.88	0.42	02/17/16 14:05	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	0.65	02/17/16 14:05	
m&p-Xylene	ug/m3	ND	1.8	0.79	02/17/16 14:05	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	02/17/16 14:05	
Methylene Chloride	ug/m3	ND	3.5	0.54	02/17/16 14:05	
n-Heptane	ug/m3	ND	0.83	0.28	02/17/16 14:05	
n-Hexane	ug/m3	ND	0.72	0.36	02/17/16 14:05	
Naphthalene	ug/m3	ND	2.7	0.30	02/17/16 14:05	
o-Xylene	ug/m3	ND	0.88	0.35	02/17/16 14:05	
Propylene	ug/m3	ND	0.35	0.14	02/17/16 14:05	
Styrene	ug/m3	ND	0.87	0.19	02/17/16 14:05	
Tetrachloroethene	ug/m3	ND	0.69	0.28	02/17/16 14:05	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	02/17/16 14:05	
Toluene	ug/m3	ND	0.77	0.15	02/17/16 14:05	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	02/17/16 14:05	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	0.26	02/17/16 14:05	
Trichloroethene	ug/m3	ND	0.55	0.28	02/17/16 14:05	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	02/17/16 14:05	
Vinyl acetate	ug/m3	ND	0.72	0.33	02/17/16 14:05	
Vinyl chloride	ug/m3	ND	0.26	0.20	02/17/16 14:05	

LABORATORY CONTROL SAMPLE: 2193630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57.7	48.0	83	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	74	67.2	91	49-150	
1,1,2-Trichloroethane	ug/m3	58.8	47.2	80	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	73.7	90	66-131	
1,1-Dichloroethane	ug/m3	43.2	36.2	84	62-139	
1,1-Dichloroethene	ug/m3	42.3	36.2	86	62-135	
1,2,4-Trichlorobenzene	ug/m3	73.9	75.6	102	55-146	
1,2,4-Trimethylbenzene	ug/m3	51.5	50.4	98	57-143	
1,2-Dibromoethane (EDB)	ug/m3	82.8	74.5	90	63-150	
1,2-Dichlorobenzene	ug/m3	62.9	64.9	103	57-141	
1,2-Dichloroethane	ug/m3	43.6	35.7	82	61-144	
1,2-Dichloropropane	ug/m3	50.2	41.5	83	63-144	
1,3,5-Trimethylbenzene	ug/m3	51.5	48.6	94	54-147	
1,3-Butadiene	ug/m3	23.2	20.5	89	61-140	
1,3-Dichlorobenzene	ug/m3	63.6	63.8	100	51-150	
1,4-Dichlorobenzene	ug/m3	61.7	62.1	101	57-143	
2-Butanone (MEK)	ug/m3	32.1	27.9	87	66-144	
2-Hexanone	ug/m3	45	43.4	97	63-147	

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REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

LABORATORY CONTROL SAMPLE: 2193630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	25.7	23.7	92	54-146	
4-Ethyltoluene	ug/m3	49.5	48.6	98	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.7	42.2	96	58-150	
Acetone	ug/m3	24.9	23.8	96	46-140	
Benzene	ug/m3	34.4	29.0	84	62-141	
Benzyl chloride	ug/m3	54.7	44.2	81	66-138	
Bromodichloromethane	ug/m3	71.5	61.1	85	58-149	
Bromoform	ug/m3	113	108	95	61-150	
Bromomethane	ug/m3	38.3	32.7	85	58-136	
Carbon disulfide	ug/m3	33.2	28.2	85	59-135	
Carbon tetrachloride	ug/m3	67.1	57.0	85	60-149	
Chlorobenzene	ug/m3	50.1	43.7	87	60-150	
Chloroethane	ug/m3	26	24.6	94	61-136	
Chloroform	ug/m3	51.6	43.4	84	65-138	
Chloromethane	ug/m3	21	18.3	87	62-133	
cis-1,2-Dichloroethene	ug/m3	43.5	36.7	84	65-139	
cis-1,3-Dichloropropene	ug/m3	51.7	43.7	85	61-149	
Cyclohexane	ug/m3	36.7	31.4	85	64-134	
Dibromochloromethane	ug/m3	97	84.1	87	59-150	
Dichlorodifluoromethane	ug/m3	50.3	43.8	87	63-134	
Dichlorotetrafluoroethane	ug/m3	69.6	62.2	89	62-134	
Ethanol	ug/m3	20.3	19.1	94	50-144	
Ethyl acetate	ug/m3	38.1	31.8	83	55-146	
Ethylbenzene	ug/m3	47.2	41.4	88	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	42-150	
m&p-Xylene	ug/m3	47.7	43.2	91	59-146	
Methyl-tert-butyl ether	ug/m3	38.5	34.6	90	64-135	
Methylene Chloride	ug/m3	38.8	32.3	83	64-128	
n-Heptane	ug/m3	44.2	36.0	81	64-140	
n-Hexane	ug/m3	37.6	26.6	71	50-138	
Naphthalene	ug/m3	55.9	39.5	71	46-146	
o-Xylene	ug/m3	46.8	41.0	88	54-149	
Propylene	ug/m3	18.9	15.5	82	58-135	
Styrene	ug/m3	45.5	42.3	93	54-150	
Tetrachloroethene	ug/m3	72.4	63.7	88	60-142	
Tetrahydrofuran	ug/m3	32.7	27.4	84	56-143	
Toluene	ug/m3	41	32.6	79	61-138	
trans-1,2-Dichloroethene	ug/m3	41.1	37.3	91	67-137	
trans-1,3-Dichloropropene	ug/m3	51.7	42.7	83	59-145	
Trichloroethene	ug/m3	57.4	49.3	86	60-144	
Trichlorofluoromethane	ug/m3	58.2	48.8	84	59-134	
Vinyl acetate	ug/m3	39.7	29.3	74	55-143	
Vinyl chloride	ug/m3	26.5	23.1	87	63-135	

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QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

SAMPLE DUPLICATE: 2194253

Parameter	Units	10337978007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	2.8	2.6	9	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	.92J		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	9.9	8.3	18	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	5.4	4.8	13	25	
4-Ethyltoluene	ug/m3	ND	1.3J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	35.2	37.1	5	25	
Benzene	ug/m3	0.91	0.91	0	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	2.4	1.2	68	25	R1
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	3.1	2.8	10	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.1	2.8	31	25	R1
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	52.4	44.9	15	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	.71J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	2.5J		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	280	264	6	25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

SAMPLE DUPLICATE: 2194253

Parameter	Units	10337978007 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	54.1	50.8	6	25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	.83J		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	85.0	77.5	9	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	4.7	4.2	10	25	
Trichlorofluoromethane	ug/m3	1.9	1.8	3	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 2194254

Parameter	Units	10338437004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	2.1J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	4.5	4.1	8	25	
Benzene	ug/m3	0.56	0.59	5	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

SAMPLE DUPLICATE: 2194254

Parameter	Units	10338437004 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	0.75	0.79	5	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	1.7	2.5	40	25	R1
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	8.0	7.2	10	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	.89J		25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	ND	.59J		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	2.5	2.2	14	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10337978001
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978002
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978003
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978004
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978005
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978006
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978007
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978008
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978009
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10337978010
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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QUALIFIERS

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60476823 SLP SSD System
Pace Project No.: 10337978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10337978001	**SSV-1**	TO-15	AIR/25246		
10337978002	**SSV-2**	TO-15	AIR/25246		
10337978003	**SSV-3**	TO-15	AIR/25246		
10337978004	**SSV-4**	TO-15	AIR/25246		
10337978005	**SSV-5**	TO-15	AIR/25246		
10337978006	**IA-1**	TO-15	AIR/25246		
10337978007	**IA-2**	TO-15	AIR/25246		
10337978008	**IA-3**	TO-15	AIR/25246		
10337978009	**IA-4**	TO-15	AIR/25246		
10337978010	**AA-1**	TO-15	AIR/25246		
10337978011	**SSV-1 Can Cert**	TO-15	AIR/25190		
10337978012	**SSV-2 Can Cert**	TO-15	AIR/25190		
10337978013	**SSV-3 Can Cert**	TO-15	AIR/25190		
10337978014	**SSV-4 Can Cert**	TO-15	AIR/25190		
10337978015	**SSV-5 Can Cert**	TO-15	AIR/25190		
10337978016	**IA-1 Can Cert**	TO-15	AIR/25190		
10337978017	**IA-2 Can Cert**	TO-15	AIR/25190		
10337978018	**IA-3 Can Cert**	TO-15	AIR/25190		
10337978019	**IA-4 Can Cert**	TO-15	AIR/25190		
10337978020	**AA-1 Can Cert**	TO-15	AIR/25190		

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10337978

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

23831

Page: 1 of 1

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle Ave. Suite 500 Minneapolis, MN 55402
Email To: tony.cowell@aecom.com
Phone: 612-376-2000 Fax: —
Requested Due Date/TAT: 5/2

Section B Required Project Information:

Report To: Tony Cowell
Copy To: Melissa Meeuwsen melissa.meeuwsen@aecom.com
Purchase Order No.:
Project Name: SLP SSD System
Project Number: 60476823

Section C Invoice Information:

Attention: Same.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carol Davy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State _____

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other_____

Section D Required Client Information — AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID	
1	SSV-1			2-8-16	945	2-8-16	1030	-29	-1	0253								X			001	011
2	SSV-2				946		1031	-28	-2	0156											002	012
3	SSV-3				947		1035	-28	-1	0658											003	013
4	SSV-4				948		1032	-28	-1	0114											004	014
5	SSV-5				949		1049	-27	-3	0295											005	015
6	IA-1				925	2-9-16	1018	-29	0	0925											006	016
7	IA-2				928		1023	-28	-3	1486											007	017
8	IA-3				923		1023	-30	-2	0291											008	018
9	IA-4				930		1030	-30	-4	1033											009	019
10	AA-1				935		1018	-26	0	2811											010	020
11																						
12																						

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ben Klaus / AECOM	2-9-16	11:00	[illegible] Pace	2/9/16	11:00

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Klaus

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY) 2-9-16

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Aecom - MN

Project #: WO# : 10337978

10337978

Courier: ☐ Fed Ex ☐ UPS ☐ Speedee ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2916

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
SSV-1	0253	0638			
SSV-2	0156	0848			
SSV-3	0658	0824			
SSV-4	0114	0929			
SSV-5	0295	0715			
IA-1	2416 ~~0425~~ 0484	0007			
IA-2	1486	0863			
IA-3	0291	0350			
IA-4	1033	1084			
AA-1	2811	1097			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: MM **Date:** 2-8-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04820.D
Report Date: 23-Feb-2016 12:18

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978001
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 16:03

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	2.17	J
2.	106-97-8	Butane	2.576	278	NJ
3.	107-83-5	Pentane, 2-methyl-	3.368	11.4	NJ
4.	96-37-7	Cyclopentane, methyl-	3.996	27.9	NJ
5.		Unknown	6.374	0.405	J
6.		Unknown	6.599	2.17	J
7.	3855-82-1	1,4-Dichlorobenzene-d4	10.714	0.0307	NJ
8.	141-62-8	Tetrasiloxane, decamethyl-	11.086	0.0565	NJ
9.		Unknown	12.403	0.0256	J
10.		Unknown	14.092	0.0666	J

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04820.D
Report Date: 23-Feb-2016 12:18

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04820.D
Lab Smp Id: 10337978001
Inj Date : 17-FEB-2016 16:03
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 20
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

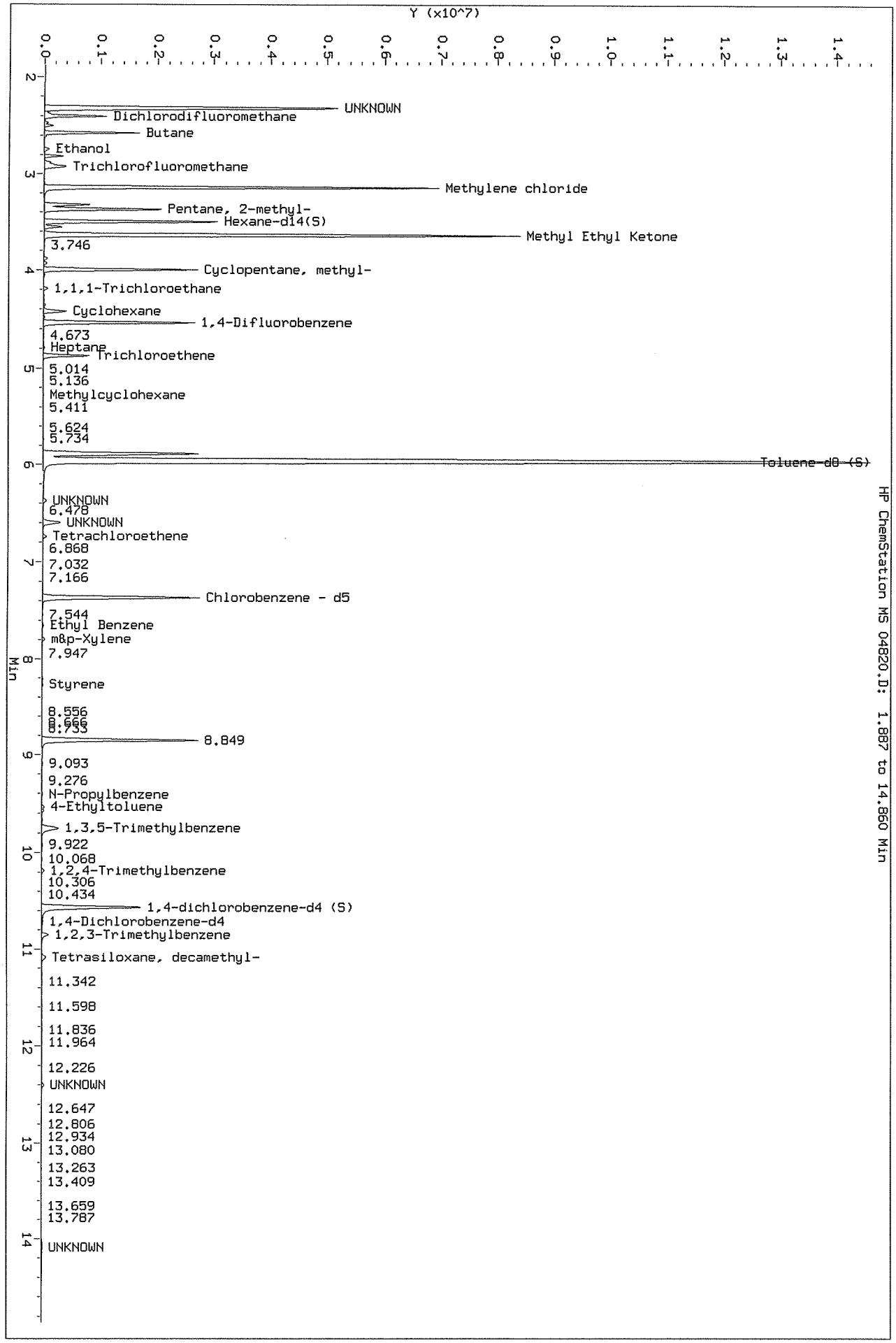
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.417	1721034	0.292
10 Ethanol	2.740	145529	15.291
$ 28 Hexane-d14(S)	3.557	4940155	9.452
37 1,1,1-Trichloroethane	4.191	110356	0.536
60 Tetrachloroethene	6.740	98459	0.234
81 1,2,3-Trimethylbenzene	10.794	291630	0.061

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	9228932	1.56453013	2.17	0		0	3
Butane				CAS #: 106-97-8			
2.576	1904423	200.100502	278	80	NBS75K.1	99	10

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04820.D
Report Date: 23-Feb-2016 12:18

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Pentane, 2-methyl-					CAS #: 107-83-5		
3.368	4275910	8.18067392	11.4	91	NBS75K.l	62863	28
Cyclopentane, methyl-					CAS #: 96-37-7		
3.996	4129376	20.0723135	27.9	86	NBS75K.l	594	37
Unknown					CAS #:		
6.374	122900	0.29148498	0.405	0		0	60
Unknown					CAS #:		
6.599	659635	1.56447414	2.17	0		0	60
1,4-Dichlorobenzene-d4					CAS #: 3855-82-1		
10.714	106069	0.02208515	0.0307	86	NBS75K.l	9593	81
Tetrasiloxane, decamethyl-					CAS #: 141-62-8		
11.086	195309	0.04066631	0.0565	91	NBS75K.l	72967	81
Unknown					CAS #:		
12.403	88568	0.01844114	0.0256	0		0	81
Unknown					CAS #:		
14.092	229958	0.04788093	0.0666	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04820.D
Injection Date: 17-FEB-2016 16:03
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04821.D
Report Date: 23-Feb-2016 12:18

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978002
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 16:30

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.326	1.25	J
2. 106-97-8	Butane	2.582	0.0499	NJ
3.	Unknown	3.338	16.4	J
4. 96-37-7	Cyclopentane, methyl-	3.996	6.67	NJ
5.	Unknown	6.374	0.457	J
6. 541-05-9	Cyclotrisiloxane, hexamethy	6.599	2.18	NJ
7. 141-62-8	Tetrasiloxane, decamethyl-	11.080	0.0235	NJ
8.	Unknown	11.348	0.0142	J
9.	Unknown	12.391	14.4	J

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04821.D
Report Date: 23-Feb-2016 12:18

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04821.D
Lab Smp Id: 10337978002
Inj Date : 17-FEB-2016 16:30
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 21
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

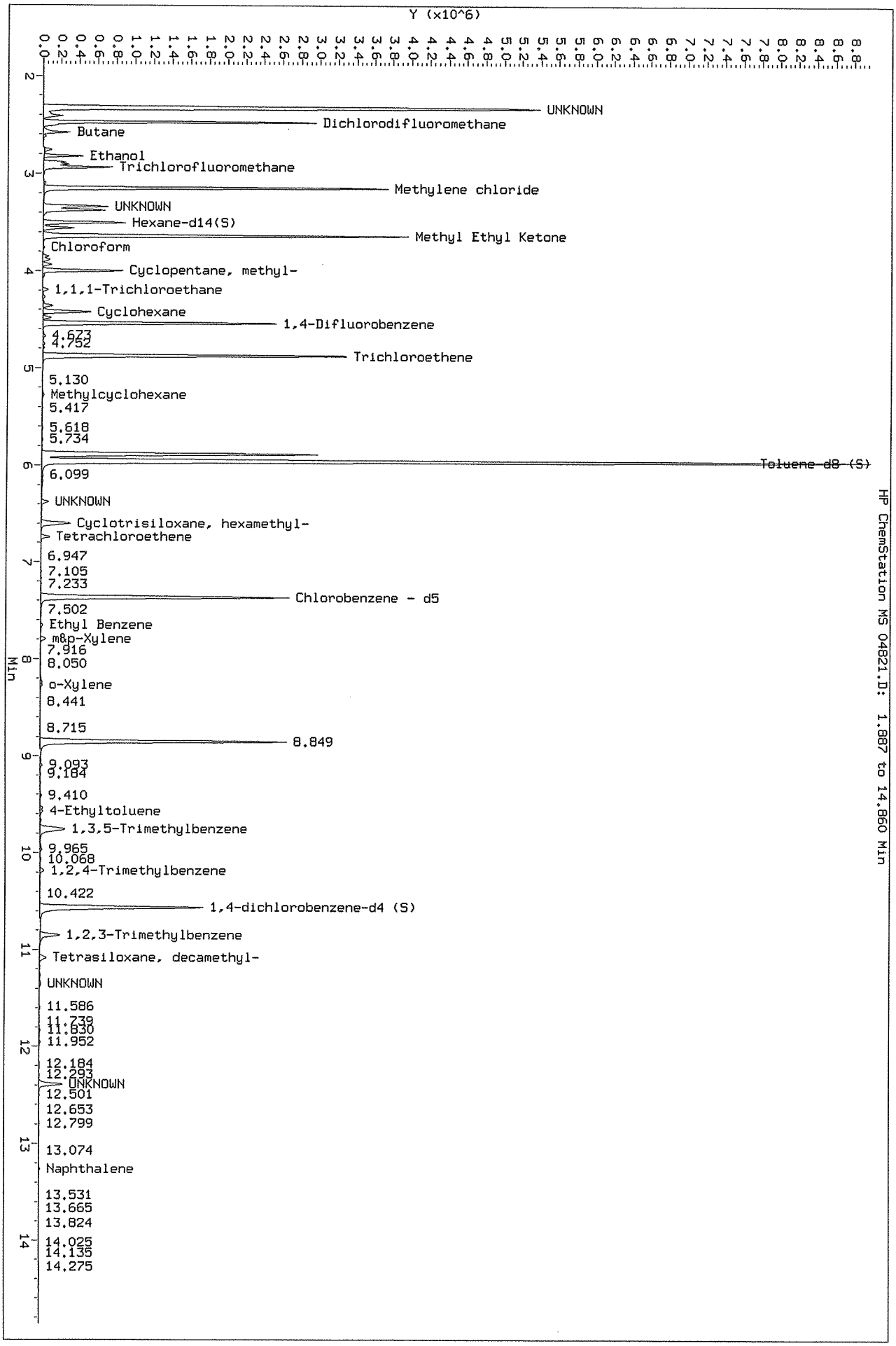
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.429	3560045	0.306
$ 28 Hexane-d14(S)	3.557	1659089	9.644
37 1,1,1-Trichloroethane	4.191	141099	0.410
60 Tetrachloroethene	6.740	154078	0.361
81 1,2,3-Trimethylbenzene	10.794	459929	0.051
85 Naphthalene	13.263	34560	0.714

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.326	10476315	0.89956066	1.25	0		0	3
Butane				CAS #: 106-97-8			
2.582	418032	0.03589479	0.0499	80	NBS75K.1	99	3

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04821.D
Report Date: 23-Feb-2016 12:18

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.338	2024139	11.7658469	16.4	0		0	28
Cyclopentane, methyl-				CAS #: 96-37-7			
3.996	1650932	4.80129148	6.67	86	NBS75K.l	594	37
Unknown				CAS #:			
6.374	140406	0.32861318	0.457	0		0	60
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.599	669248	1.56634070	2.18	72	NBS75K.l	27918	60
Tetrasiloxane, decamethyl-				CAS #: 141-62-8			
11.080	152074	0.01689491	0.0235	83	NBS75K.l	44155	81
Unknown				CAS #:			
11.348	91924	0.01021247	0.0142	0		0	81
Unknown				CAS #:			
12.391	500552	10.3368692	14.4	0		0	85

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04821.D
Injection Date: 17-FEB-2016 16:30
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04822.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978003
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 16:58

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	116	J
2.		Unknown	3.326	0.0336	J
3.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	27.7	NJ
4.		Unknown	9.928	0.00413	J
5.	5989-27-5	D-Limonene	10.855	0.342	NJ
6.		Unknown	11.086	0.627	J
7.		Unknown	11.342	0.0815	J
8.	3789-85-3	Benzoic acid, 2-[(trimethyl	12.403	17.6	NJ
9.	556-67-2	Cyclotetrasiloxane, octamet	12.940	2.54	NJ
10.	3789-85-3	Benzoic acid, 2-[(trimethyl	13.848	23.0	NJ

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04822.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04822.D
Lab Smp Id: 10337978003
Inj Date : 17-FEB-2016 16:58
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 22
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

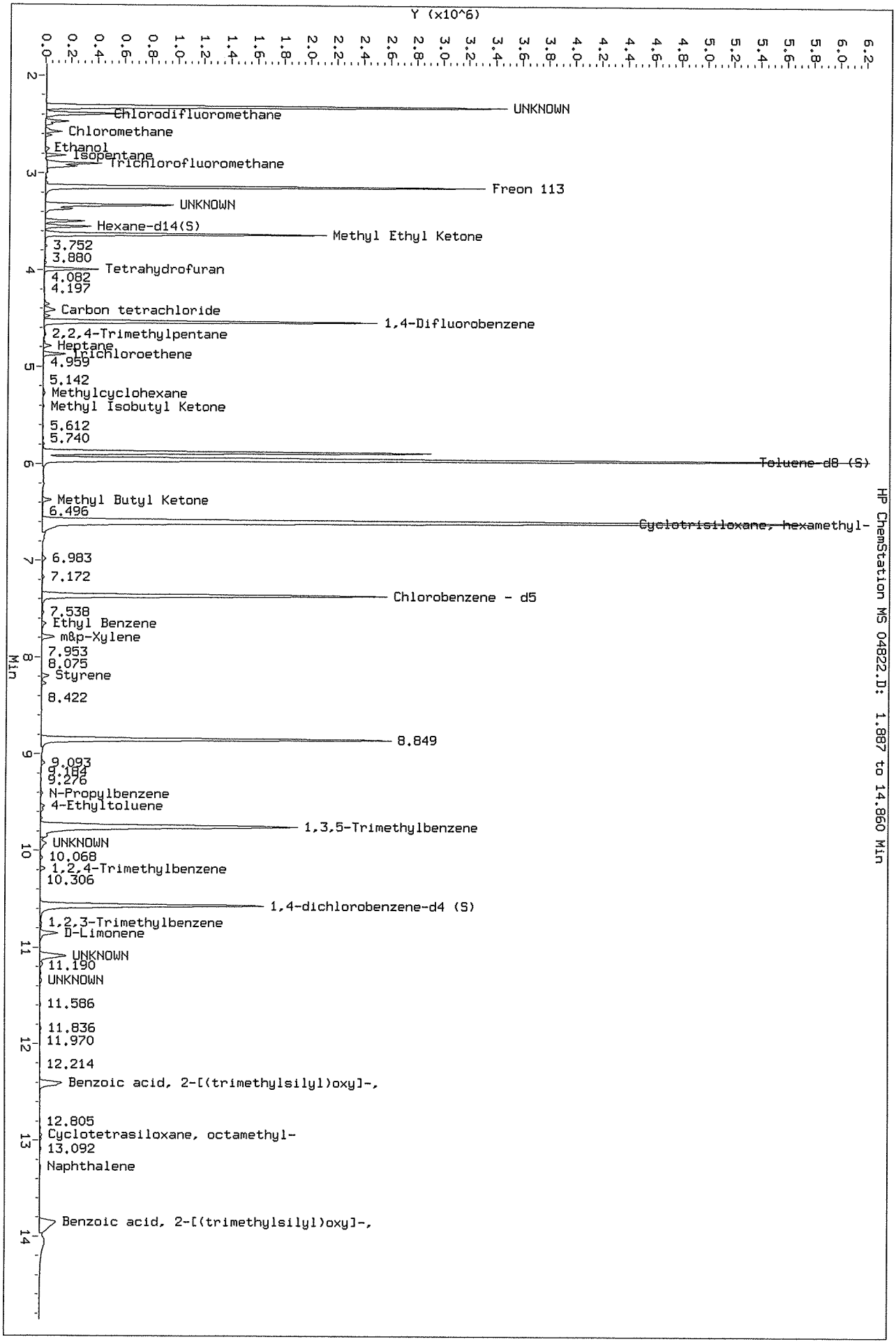
COMPOUND	RT	AREA	AMOUNT
1 Chlorodifluoromethane	2.393	900161	14.894
20 Freon 113	3.100	4295715	0.061
57 Methyl Butyl Ketone	6.209	127270	0.192
72 1,3,5-Trimethylbenzene	9.666	5054719	0.086
81 1,2,3-Trimethylbenzene	10.788	74266	0.061
85 Naphthalene	13.269	26108	0.651

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	5031790	83.2575917	116	0		0	1
Unknown				CAS #:			
3.326	1689317	0.02417118	0.0336	0		0	20

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04822.D
Report Date: 23-Feb-2016 12:19

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.599	13253110	19.9429343	27.7	91	NBS75K.l	70586	57
Unknown				CAS #:			
9.928	174996	0.00297326	0.00413	0		0	72
D-Limonene				CAS #: 5989-27-5			
10.855	301177	0.24599343	0.342	94	NBS75K.l	6664	81
Unknown				CAS #:			
11.086	552366	0.45115775	0.627	0		0	81
Unknown				CAS #:			
11.342	71779	0.05862748	0.0815	0		0	81
Benzoic acid, 2-[(trimethylsilyl)oxy]-,				CAS #: 3789-85-3			
12.403	507546	12.6462745	17.6	72	NBS75K.l	72299	85
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
12.940	73213	1.82421685	2.54	83	NBS75K.l	41966	85
Benzoic acid, 2-[(trimethylsilyl)oxy]-,				CAS #: 3789-85-3			
13.848	662700	16.5121786	23.0	72	NBS75K.l	72299	85

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04822.D
Injection Date: 17-FEB-2016 16:58
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04823.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978004
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 17:25

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.326	1.63	J
2.	107-83-5	Pentane, 2-methyl-	3.374	14.3	NJ
3.		Unknown	3.886	2.37	J
4.	96-37-7	Cyclopentane, methyl-	4.002	33.9	NJ
5.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	6.20	NJ
6.	5989-54-8	Cyclohexene, 1-methyl-4-(1-	10.855	0.485	NJ
7.	141-62-8	Tetrasiloxane, decamethyl-	11.074	0.973	NJ
8.	3789-85-3	Benzoic acid, 2-[(trimethyl	12.385	1.76	NJ
9.	556-67-2	Cyclotetrasiloxane, octamet	12.976	0.118	NJ
10.	3789-85-3	Benzoic acid, 2-[(trimethyl	13.811	0.139	NJ

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04823.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04823.D
Lab Smp Id: 10337978004
Inj Date : 17-FEB-2016 17:25
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 23
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.429	1388283	0.285
$ 28 Hexane-d14(S)	3.563	4173271	9.533
30 n-Hexane	3.643	11138864	91.056
37 1,1,1-Trichloroethane	4.197	31035	0.196
$ 54 Toluene-d8 (S)	5.886	21008996	9.551
81 1,2,3-Trimethylbenzene	10.794	51850	0.048

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.326	5726223	1.17437074	1.63	0		0	3
Pentane, 2-methyl-				CAS #: 107-83-5			
3.374	4502987	10.2858958	14.3	91	NBS75K.l	62863	28

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04823.D
Report Date: 23-Feb-2016 12:19

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.886	208550	1.70481809	2.37	0		0	30
Cyclopentane, methyl-				CAS #:	96-37-7		
4.002	3850507	24.3641617	33.9	86	NBS75K.l	594	37
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
6.599	9818923	4.46364612	6.20	91	NBS75K.l	70586	54
Cyclohexene, 1-methyl-4-(1-methylethenyl				CAS #:	5989-54-8		
10.855	377322	0.34882540	0.485	94	NBS75K.l	65806	81
Tetrasiloxane, decamethyl-				CAS #:	141-62-8		
11.074	757524	0.70031261	0.973	91	NBS75K.l	72967	81
Benzoic acid, 2-[(trimethylsilyl)oxy]-,				CAS #:	3789-85-3		
12.385	1371284	1.26771864	1.76	72	NBS75K.l	72299	81
Cyclotetrasiloxane, octamethyl-				CAS #:	556-67-2		
12.976	91708	0.08478177	0.118	72	NBS75K.l	72646	81
Benzoic acid, 2-[(trimethylsilyl)oxy]-,				CAS #:	3789-85-3		
13.811	108011	0.09985389	0.139	72	NBS75K.l	72298	81

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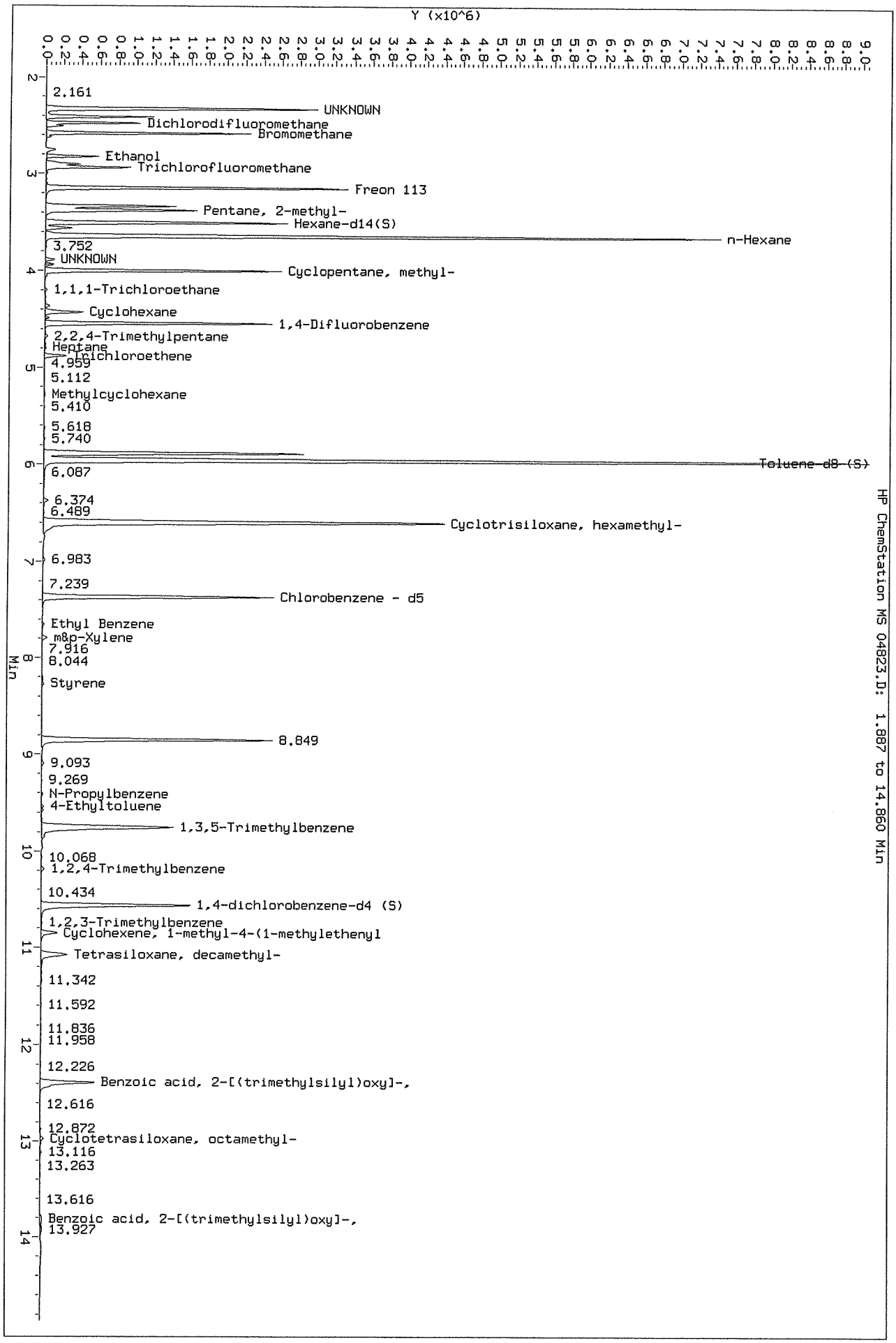
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 04823.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04824.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978005
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 17:52

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	16.3	J
2.		Unknown	2.612	0.391	J
3.	1066-40-6	Silanol, trimethyl-	3.325	32.0	NJ
4.	96-37-7	Cyclopentane, methyl-	3.996	5.84	NJ
5.		Unknown	6.368	0.0759	J
6.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	17.2	NJ
7.	141-62-8	Tetrasiloxane, decamethyl-	11.080	0.0780	NJ
8.		Unknown	12.391	0.259	J
9.	556-67-2	Cyclotetrasiloxane, octamet	12.903	0.0411	NJ
10.		Unknown	13.915	0.0374	J

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04824.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04824.D
Lab Smp Id: 10337978005
Inj Date : 17-FEB-2016 17:52
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 24
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

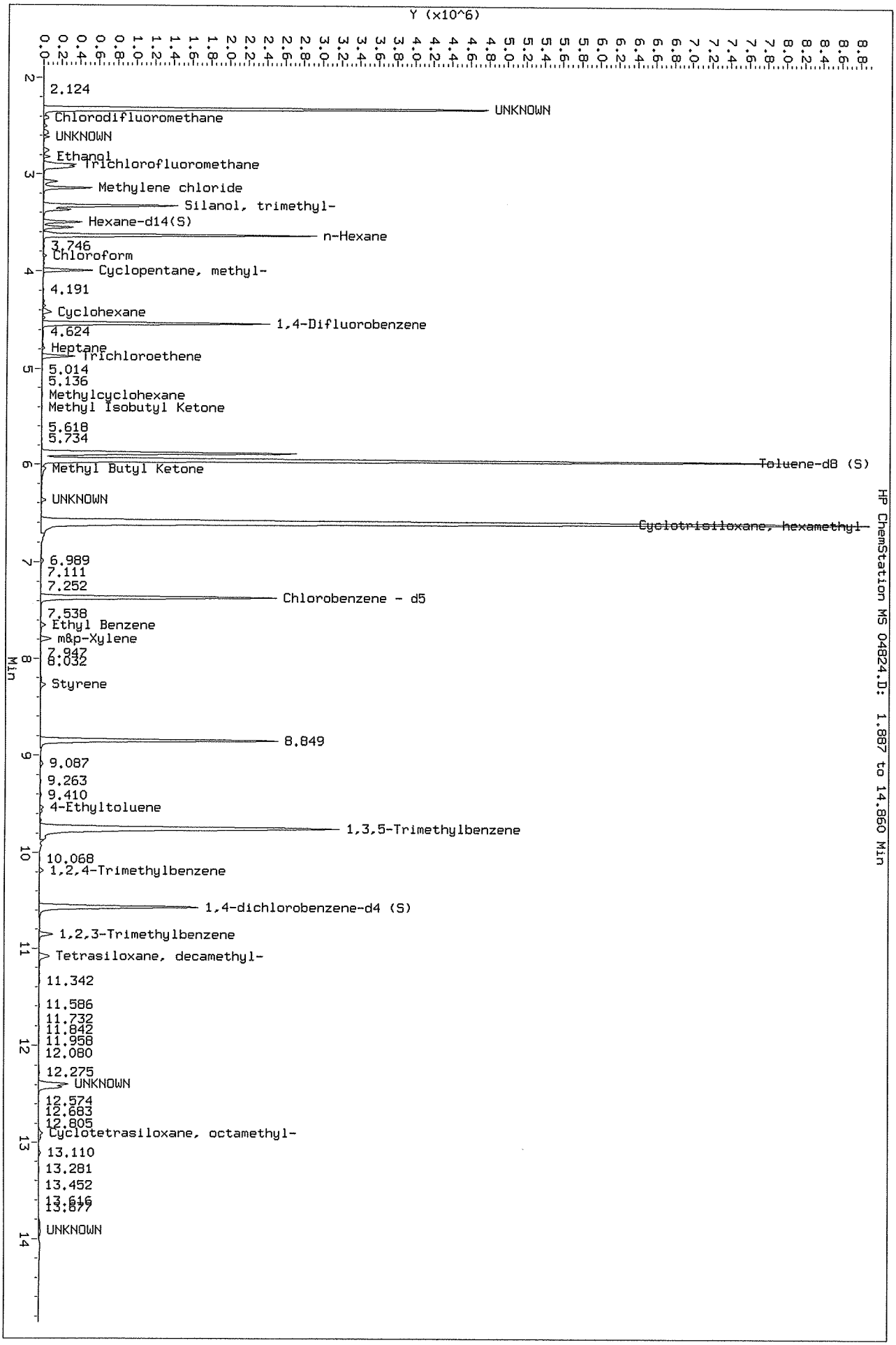
COMPOUND	RT	AREA	AMOUNT
1 Chlorodifluoromethane	2.399	171034	0.258
$ 28 Hexane-d14(S)	3.551	984651	9.424
35 Chloroform	3.844	62210	0.343
57 Methyl Butyl Ketone	6.197	193819	0.119
81 1,2,3-Trimethylbenzene	10.787	296281	0.054

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	8041411	12.1472996	16.3	0		0	1
Unknown				CAS #:			
2.612	193017	0.29157054	0.391	0		0	1
Silanol, trimethyl-				CAS #: 1066-40-6			
3.325	2496331	23.8911900	32.0	78	NBS75K.1	907	28

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04824.D
Report Date: 23-Feb-2016 12:19

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclopentane, methyl-				CAS #: 96-37-7			
3.996	789865	4.35849953	5.84	86	NBS75K.l	594	35
Unknown				CAS #:			
6.368	92203	0.05666200	0.0759	0		0	57
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.599	20861355	12.8200561	17.2	91	NBS75K.l	70586	57
Tetrasiloxane, decamethyl-				CAS #: 141-62-8			
11.080	318783	0.05823437	0.0780	90	NBS75K.l	72967	81
Unknown				CAS #:			
12.391	1058499	0.19336388	0.259	0		0	81
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
12.903	168014	0.03069232	0.0411	72	NBS75K.l	72646	81
Unknown				CAS #:			
13.915	152643	0.02788451	0.0374	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04824.D
Injection Date: 17-FEB-2016 17:52
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04826.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978006
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 18:41

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.326	0.618	J
2.	106-97-8	Butane	2.582	0.700	NJ
3.	107-83-5	Pentane, 2-methyl-	3.374	7.95	NJ
4.	4418-61-5	1H-Tetrazol-5-amine	3.886	0.123	NJ
5.	96-37-7	Cyclopentane, methyl-	4.002	22.8	NJ
6.		Unknown	6.374	0.771	J
7.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	0.841	NJ
8.	80-56-8	.alpha.-Pinene	9.093	3.24	NJ
9.	611-14-3	Benzene, 1-ethyl-2-methyl-	9.928	3.57	NJ
10.	1074-43-7	Benzene, 1-methyl-3-propyl-	11.233	0.238	NJ

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04826.D
Report Date: 23-Feb-2016 12:19

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04826.D
Lab Smp Id: 10337978006
Inj Date : 17-FEB-2016 18:41
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 26
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

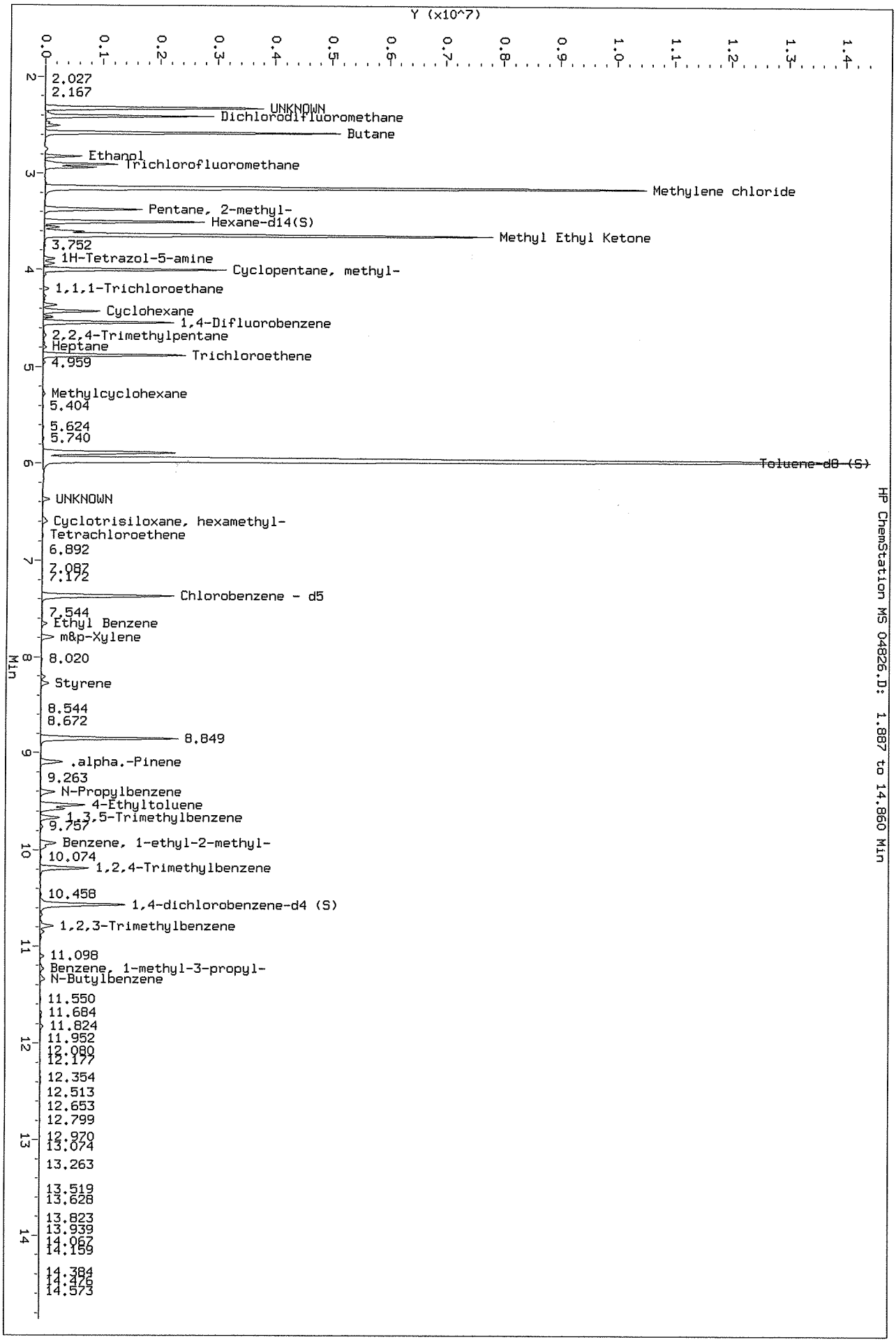
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.423	3979149	0.326
$ 28 Hexane-d14(S)	3.557	4058629	9.410
29 Methyl Ethyl Ketone	3.630	13323612	1.997
37 1,1,1-Trichloroethane	4.197	206146	0.769
60 Tetrachloroethene	6.746	33684	0.084
70 N-Propylbenzene	9.404	484837	1.550
74 1,2,4-Trimethylbenzene	10.184	1626943	6.191
83 N-Butylbenzene	11.342	223315	0.240

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.326	5621767	0.46099779	0.618	0		0	3

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04826.D
Report Date: 23-Feb-2016 12:19

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Butane					CAS #: 106-97-8		
2.582	6367762	0.52217108	0.700	86	NBS75K.l	99	3
Pentane, 2-methyl-					CAS #: 107-83-5		
3.374	2559414	5.93376086	7.95	91	NBS75K.l	62863	28
1H-Tetrazol-5-amine					CAS #: 4418-61-5		
3.886	612101	0.09176396	0.123	83	NBS75K.l	612	29
Cyclopentane, methyl-					CAS #: 96-37-7		
4.002	4569292	17.0479159	22.8	86	NBS75K.l	594	37
Unknown					CAS #:		
6.374	230393	0.57564761	0.771	0		0	60
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.599	251132	0.62746401	0.841	78	NBS75K.l	70586	60
.alpha.-Pinene					CAS #: 80-56-8		
9.093	756355	2.41780411	3.24	94	NBS75K.l	65808	70
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
9.928	701064	2.66770601	3.57	95	NBS75K.l	64559	74
Benzene, 1-methyl-3-propyl-					CAS #: 1074-43-7		
11.233	165078	0.17762395	0.238	91	NBS75K.l	65528	83

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04826.D
Injection Date: 17-FEB-2016 18:41
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04827.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978007
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 19:09

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	38.0	J
2.		Unknown	2.570	81.2	J
3.	1574-41-0	1,3-Pentadiene, (Z)-	2.996	0.0167	NJ
4.	107-83-5	Pentane, 2-methyl-	3.368	3.85	NJ
5.		Unknown	3.990	0.924	J
6.		Unknown	6.368	0.0763	J
7.	55429-29-3	Arsenous acid, tris(trimeth	6.599	0.246	NJ
8.	4889-83-2	Bicyclo[3.1.1]hept-2-ene, 3	9.093	0.308	NJ
9.	556-67-2	Cyclotetrasiloxane, octamet	9.763	0.245	NJ
10.	620-14-4	Benzene, 1-ethyl-3-methyl-	9.928	0.200	NJ

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04827.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04827.D
Lab Smp Id: 10337978007
Inj Date : 17-FEB-2016 19:09
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 27
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

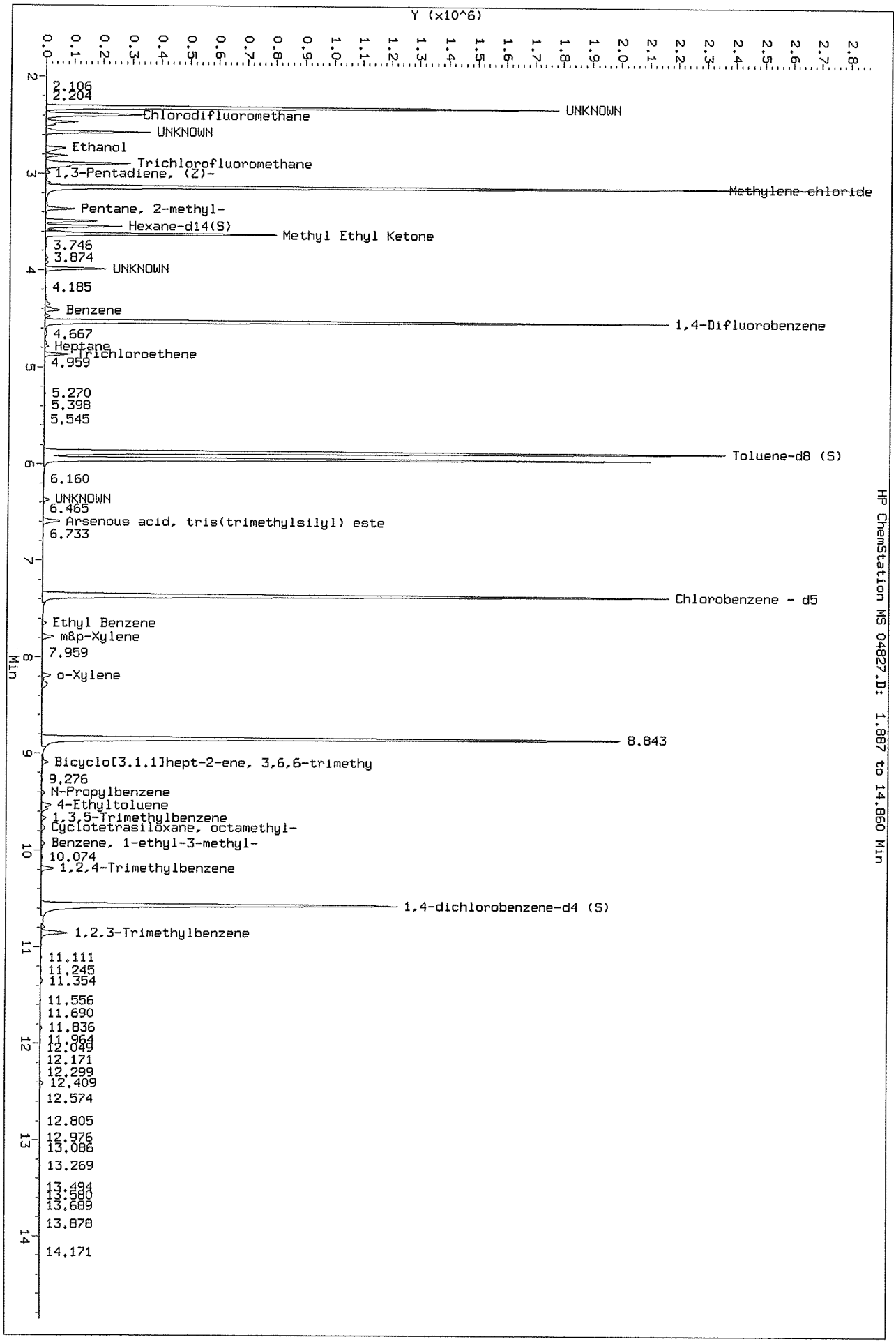
COMPOUND	RT	AREA	AMOUNT
1 Chlorodifluoromethane	2.393	770354	7.868
10 Ethanol	2.740	145684	18.362
14 Trichlorofluoromethane	2.874	637781	0.225
$ 28 Hexane-d14(S)	3.545	611772	9.098
29 Methyl Ethyl Ketone	3.600	1131357	2.209
$ 54 Toluene-d8 (S)	5.874	7153196	9.220
70 N-Propylbenzene	9.404	24399	0.086
72 1,3,5-Trimethylbenzene	9.666	29588	0.136
74 1,2,4-Trimethylbenzene	10.190	89249	0.375

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04827.D
Report Date: 23-Feb-2016 12:20

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	2494284	25.4754083	38.0	0		0	1
Unknown				CAS #:			
2.570	432627	54.5293669	81.2	0		0	10
1,3-Pentadiene, (Z)-				CAS #: 1574-41-0			
2.996	31789	0.01119655	0.0167	90	NBS75K.1	176	14
Pentane, 2-methyl-				CAS #: 107-83-5			
3.368	173868	2.58556594	3.85	74	NBS75K.1	62865	28
Unknown				CAS #:			
3.990	317466	0.61997214	0.924	0		0	29
Unknown				CAS #:			
6.368	39726	0.05120608	0.0763	0		0	54
Arsenous acid, tris(trimethylsilyl) este				CAS #: 55429-29-3			
6.599	128043	0.16504398	0.246	72	NBS75K.1	48300	54
Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethy				CAS #: 4889-83-2			
9.093	58983	0.20708821	0.308	83	NBS75K.1	6692	70
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.763	35859	0.16429579	0.245	83	NBS75K.1	41966	72
Benzene, 1-ethyl-3-methyl-				CAS #: 620-14-4			
9.928	31987	0.13450343	0.200	72	NBS75K.1	64562	74

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04827.D
Injection Date: 17-FEB-2016 19:09
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04829.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978008
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 20:05

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	2.29	J
2.	1574-41-0	1,3-Pentadiene, (Z)-	2.996	0.0140	NJ
3.	107-83-5	Pentane, 2-methyl-	3.368	3.72	NJ
4.		Unknown	3.990	1.30	J
5.		Unknown	6.368	0.0790	J
6.	541-05-9	Cyclotrisiloxane, hexamethy	6.593	0.136	NJ
7.	80-56-8	.alpha.-Pinene	9.093	0.0523	NJ
8.		Unknown	9.745	0.429	J
9.	611-14-3	Benzene, 1-ethyl-2-methyl-	9.928	0.236	NJ
10.		Unknown	10.056	0.131	J

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04829.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04829.D
Lab Smp Id: 10337978008
Inj Date : 17-FEB-2016 20:05
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 29
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

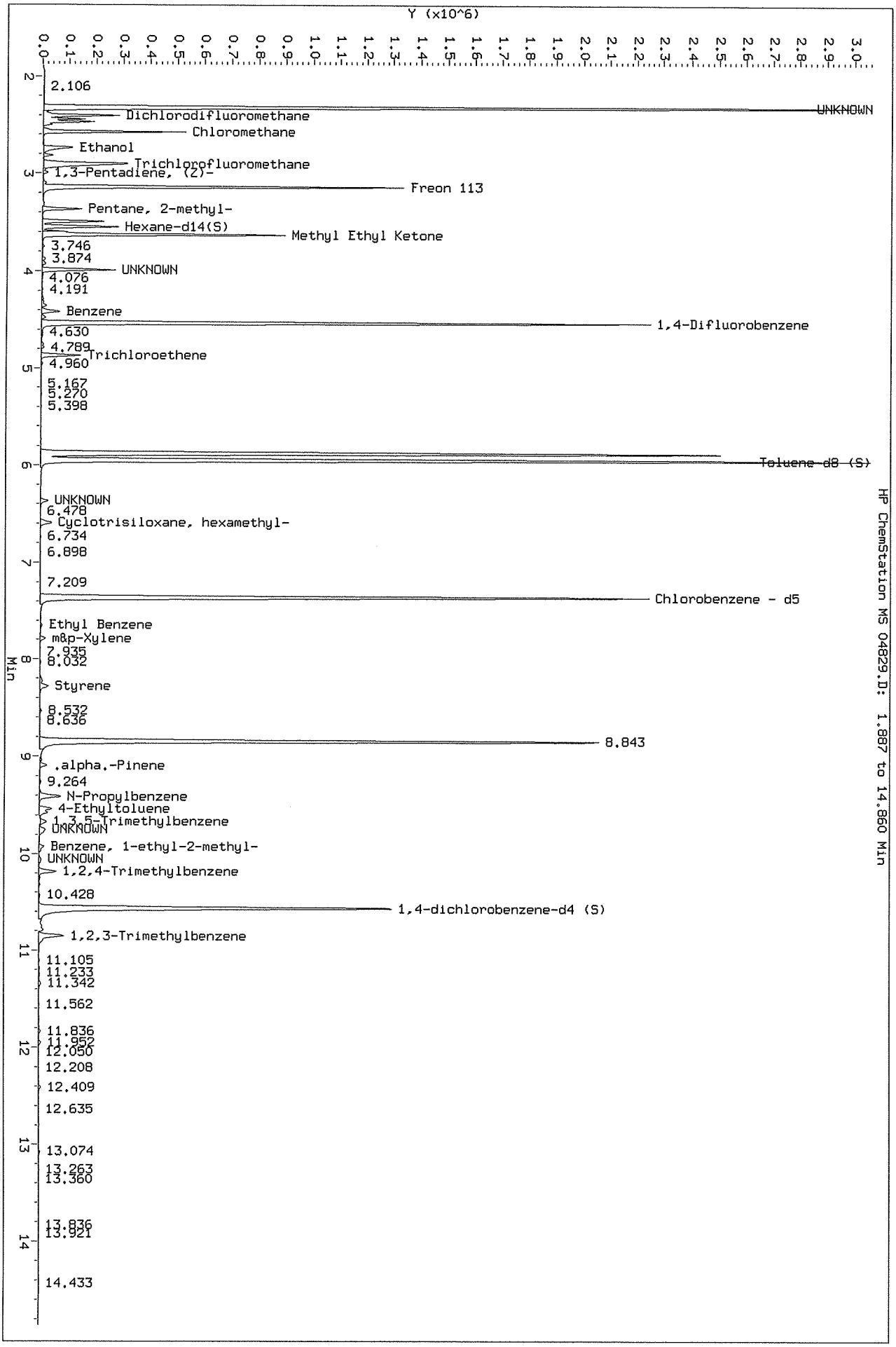
Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.423	805128	0.293
14 Trichlorofluoromethane	2.881	701241	0.201
$ 28 Hexane-d14(S)	3.551	713724	9.532
29 Methyl Ethyl Ketone	3.600	1223645	2.724
$ 54 Toluene-d8 (S)	5.880	8956307	9.299
70 N-Propylbenzene	9.404	164905	0.102
72 1,3,5-Trimethylbenzene	9.666	42204	0.168
74 1,2,4-Trimethylbenzene	10.184	150654	0.467

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	4373789	1.59370789	2.29	0		0	3

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04829.D
Report Date: 23-Feb-2016 12:20

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
1,3-Pentadiene, (Z)-				CAS #: 1574-41-0			
2.996	34077	0.00975007	0.0140	83	NBS75K.l	62401	14
Pentane, 2-methyl-				CAS #: 107-83-5			
3.368	193484	2.58393643	3.72	90	NBS75K.l	62863	28
Unknown				CAS #:			
3.990	407353	0.90667242	1.30	0		0	29
Unknown				CAS #:			
6.368	52855	0.05487711	0.0790	0		0	54
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.593	91358	0.09485429	0.136	80	NBS75K.l	27918	54
.alpha.-Pinene				CAS #: 80-56-8			
9.093	58769	0.03629768	0.0523	91	NBS75K.l	65808	70
Unknown				CAS #:			
9.745	74959	0.29784483	0.429	0		0	72
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
9.928	52949	0.16422827	0.236	83	NBS75K.l	64557	74
Unknown				CAS #:			
10.056	29331	0.09097346	0.131	0		0	74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Injection Date: 17-FEB-2016 20:05
Instrument: 10air7.i
Client Sample ID:
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2.106
UNKNOWN
Dichlorodifluoromethane
Chloromethane
Ethanol
Trichlorofluoromethane
1,3-Pentadiene, (Z)-
Freon 113
Pentane, 2-methyl-
Hexane-d14(S)
Methyl Ethyl Ketone
3.746
3.874
UNKNOWN
4.076
4.191
Benzene
1,4-Difluorobenzene
4.630
4.789
Trichloroethene
4.960
5.167
5.270
5.398
Toluene-d8 (S)
UNKNOWN
6.478
Cyclotrisiloxane, hexamethyl-
6.734
6.898
7.209
Chlorobenzene - d5
Ethyl Benzene
m&p-Xylene
7.935
8.032
Styrene
8.532
8.636
8.843
.alpha.-Pinene
9.264
N-Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
UNKNOWN
Benzene, 1-ethyl-2-methyl-
UNKNOWN
1,2,4-Trimethylbenzene
10.428
1,4-dichlorobenzene-d4 (S)
1,2,3-Trimethylbenzene
11.105
11.233
11.342
11.562
11.836
11.952
12.050
12.208
12.409
12.635
13.074
13.263
13.360
13.836
13.921
14.433
Min
HP ChemStation MS 04829.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04830.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978009
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 20:31

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.326	1.55	J
2. 106-97-8	Butane	2.582	885	NJ
3. 107-83-5	Pentane, 2-methyl-	3.374	8.30	NJ
4. 96-37-7	Cyclopentane, methyl-	4.002	14.4	NJ
5.	Unknown	6.374	0.727	J
6. 541-05-9	Cyclotrisiloxane, hexamethy	6.599	0.524	NJ
7. 80-56-8	.alpha.-Pinene	9.093	3.72	NJ
8. 611-14-3	Benzene, 1-ethyl-2-methyl-	9.928	2.55	NJ
9. 1074-43-7	Benzene, 1-methyl-3-propyl-	11.239	0.151	NJ

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04830.D
Report Date: 23-Feb-2016 12:20

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04830.D
Lab Smp Id: 10337978009
Inj Date : 17-FEB-2016 20:31
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 30
Dil Factor: 1.61000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.610	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

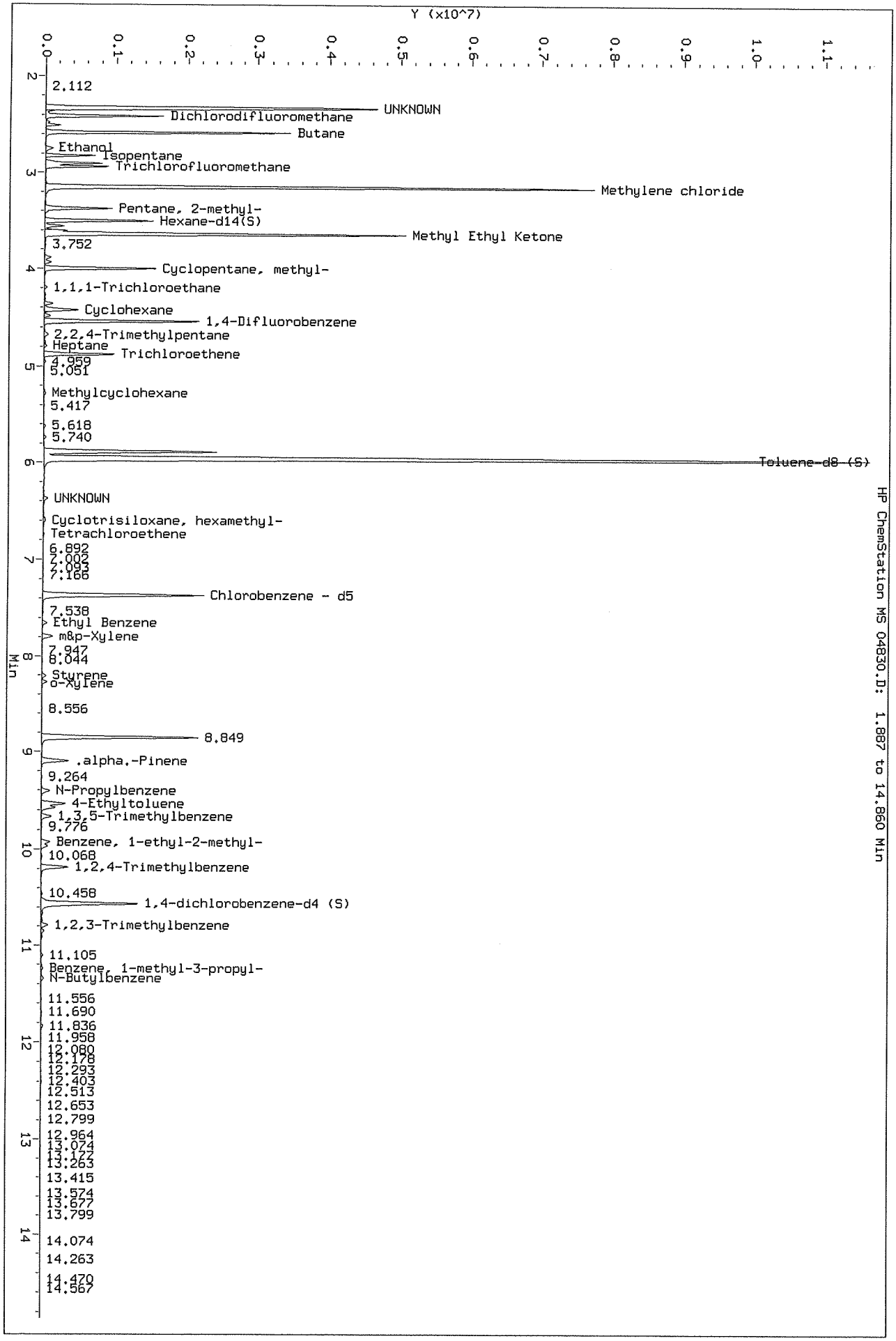
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.429	2454795	0.304
10 Ethanol	2.746	180957	25.994
$ 28 Hexane-d14(S)	3.557	2486384	9.230
37 1,1,1-Trichloroethane	4.197	96114	0.324
60 Tetrachloroethene	6.740	18794	0.066
70 N-Propylbenzene	9.404	256510	0.777
74 1,2,4-Trimethylbenzene	10.184	775251	3.012
83 N-Butylbenzene	11.348	103462	0.127

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.326	7766688	0.96210940	1.55	0		0	3

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04830.D
Report Date: 23-Feb-2016 12:20

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Butane					CAS #: 106-97-8		
2.582	3827304	549.783873	885	80	NBS75K.l	99	10
Pentane, 2-methyl-					CAS #: 107-83-5		
3.374	1389426	5.15808665	8.30	91	NBS75K.l	62863	28
Cyclopentane, methyl-					CAS #: 96-37-7		
4.002	2651024	8.93027948	14.4	86	NBS75K.l	594	37
Unknown					CAS #:		
6.374	127955	0.45137041	0.727	0		0	60
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.599	92272	0.32549731	0.524	72	NBS75K.l	27918	60
.alpha.-Pinene					CAS #: 80-56-8		
9.093	762283	2.30757296	3.72	95	NBS75K.l	65808	70
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
9.928	407335	1.58235199	2.55	94	NBS75K.l	3765	74
Benzene, 1-methyl-3-propyl-					CAS #: 1074-43-7		
11.239	76703	0.09399930	0.151	91	NBS75K.l	6195	83

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04830.D
Injection Date: 17-FEB-2016 20:31
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10air7.i\021716.b\04831.D
Report Date: 23-Feb-2016 12:21

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10337978010
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-FEB-2016 20:58

Client SDG: 021716.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.320	8.17	J
2.	1066-40-6	Silanol, trimethyl-	3.326	2.38	NJ
3.		Unknown	3.990	0.304	J
4.	4170-30-3	2-Butenal	4.210	0.0312	NJ
5.		Unknown	4.630	0.113	J
6.	110-62-3	Pentanal	4.752	0.129	NJ
7.	79-01-6	Trichloroethylene	4.874	0.0746	NJ
8.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	0.118	NJ
9.		Unknown	9.587	0.0722	J

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04831.D
Report Date: 23-Feb-2016 12:21

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\021716.b\04831.D
Lab Smp Id: 10337978010
Inj Date : 17-FEB-2016 20:58
Operator : DR1 Inst ID: 10air7.i
Smp Info :
Misc Info : 25246
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\021716.b\TO15_048-16.m
Meth Date : 23-Feb-2016 12:17 drandall Quant Type: ISTD
Cal Date : 17-FEB-2016 10:39 Cal File: 04808.D
Als bottle: 31
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

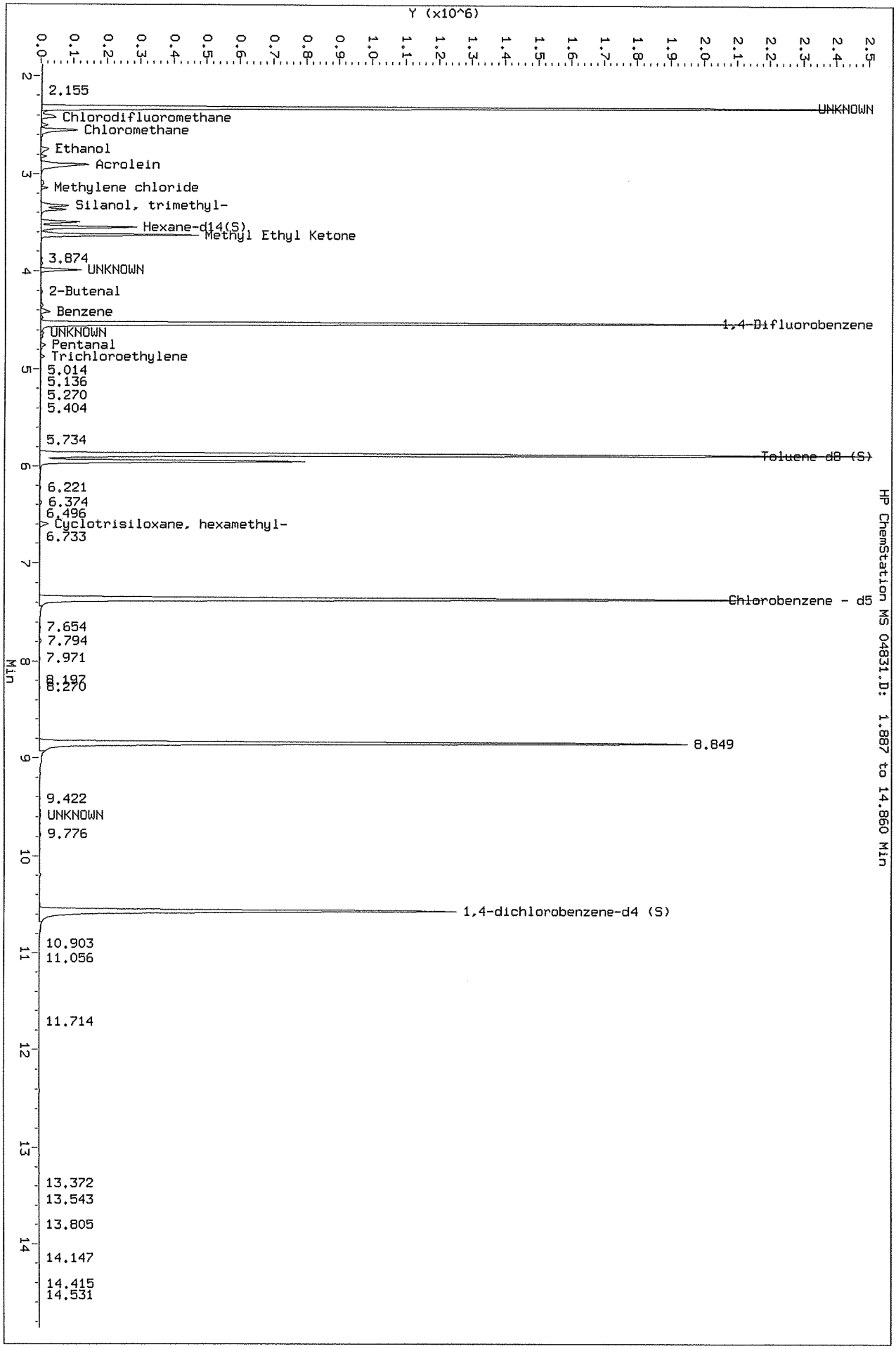
	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.399	136764	0.235
21	Methylene chloride	3.143	48078	0.339
29	Methyl Ethyl Ketone	3.606	620838	0.812
39	Benzene	4.399	63145	0.095
* 43	1,4-Difluorobenzene	4.533	3156699	10.000
$ 54	Toluene-d8 (S)	5.880	5281541	9.280
$ 77	1,4-dichlorobenzene-d4	10.568	2433932	8.161

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.320	3549336	6.09905017	8.17	0		0	1
Silanol, trimethyl-				CAS #: 1066-40-6			
3.326	252663	1.77941193	2.38	78	NBS75K.1	62980	21

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04831.D
Report Date: 23-Feb-2016 12:21

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.990	173539	0.22696368	0.304	0		0	29
2-Butenal				CAS #:	4170-30-3		
4.210	15449	0.02328327	0.0312	90	NBS75K.l	62440	39
Unknown				CAS #:			
4.630	26669	0.08448520	0.113	0		0	43
Pentanal				CAS #:	110-62-3		
4.752	30502	0.09662603	0.129	78	NBS75K.l	62818	43
Trichloroethylene				CAS #:	79-01-6		
4.874	17585	0.05570609	0.0746	91	NBS75K.l	65175	43
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
6.599	50229	0.08825805	0.118	83	NBS75K.l	70586	54
Unknown				CAS #:			
9.587	16082	0.05392448	0.0722	0		0	77

Data File: \\192.168.10.12\chem\10air7.i\021716.b\04831.D
Injection Date: 17-FEB-2016 20:58
Instrument: 10air7.i
Client Sample ID:



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 02, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lori Castille for
Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10339307001	**R-SSV-1**	Air	02/19/16 14:25	02/22/16 11:12
10339307002	**R-SSV-2**	Air	02/19/16 14:13	02/22/16 11:12
10339307003	**R-SSV-3**	Air	02/19/16 14:19	02/22/16 11:12
10339307004	**R-SSV-4**	Air	02/19/16 14:17	02/22/16 11:12
10339307005	**R-SSV-5**	Air	02/19/16 14:15	02/22/16 11:12
10339307006	**R-SSV-1 Can Cert**	Air	02/19/16 14:25	02/22/16 11:12
10339307007	**R-SSV-2 Can Cert**	Air	02/19/16 14:13	02/22/16 11:12
10339307008	**R-SSV-3 Can Cert**	Air	02/19/16 14:19	02/22/16 11:12
10339307009	**R-SSV-4 Can Cert**	Air	02/19/16 14:17	02/22/16 11:12
10339307010	**R-SSV-5 Can Cert**	Air	02/19/16 14:15	02/22/16 11:12

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10339307001	**R-SSV-1**	TO-15	MJL	61
10339307002	**R-SSV-2**	TO-15	MJL	61
10339307003	**R-SSV-3**	TO-15	MJL	61
10339307004	**R-SSV-4**	TO-15	MJL	61
10339307005	**R-SSV-5**	TO-15	MJL	61
10339307006	**R-SSV-1 Can Cert**	TO-15	NCK	61
10339307007	**R-SSV-2 Can Cert**	TO-15	NCK	61
10339307008	**R-SSV-3 Can Cert**	TO-15	MJL	61
10339307009	**R-SSV-4 Can Cert**	TO-15	MLS	61
10339307010	**R-SSV-5 Can Cert**	TO-15	MLS	61

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10339307001	**R-SSV-1**					
TO-15	Acetone	90.1	ug/m3	3.2	02/28/16 20:54	
TO-15	Benzene	4.2	ug/m3	0.44	02/28/16 20:54	
TO-15	Chloroform	0.91	ug/m3	0.66	02/28/16 20:54	
TO-15	Cyclohexane	2.4	ug/m3	0.94	02/28/16 20:54	
TO-15	Dichlorodifluoromethane	3.3	ug/m3	1.4	02/28/16 20:54	
TO-15	Ethanol	65.4	ug/m3	1.3	02/28/16 20:54	
TO-15	Ethylbenzene	5.7	ug/m3	1.2	02/28/16 20:54	
TO-15	4-Ethyltoluene	2.5	ug/m3	1.3	02/28/16 20:54	
TO-15	n-Heptane	3.8	ug/m3	1.1	02/28/16 20:54	
TO-15	n-Hexane	4.3	ug/m3	0.96	02/28/16 20:54	
TO-15	2-Propanol	238	ug/m3	3.4	02/28/16 20:54	
TO-15	Tetrahydrofuran	2.6	ug/m3	0.80	02/28/16 20:54	
TO-15	Toluene	24.6	ug/m3	1.0	02/28/16 20:54	
TO-15	Trichloroethene	15.3	ug/m3	0.74	02/28/16 20:54	
TO-15	1,2,4-Trimethylbenzene	7.6	ug/m3	1.3	02/28/16 20:54	
TO-15	1,3,5-Trimethylbenzene	1.8	ug/m3	1.3	02/28/16 20:54	
TO-15	m&p-Xylene	21.8	ug/m3	2.4	02/28/16 20:54	
TO-15	o-Xylene	7.3	ug/m3	1.2	02/28/16 20:54	
10339307002	**R-SSV-2**					
TO-15	Acetone	42.7	ug/m3	3.5	02/28/16 21:20	
TO-15	Benzene	5.7	ug/m3	0.47	02/28/16 21:20	
TO-15	Cyclohexane	3.4	ug/m3	1.0	02/28/16 21:20	
TO-15	Ethanol	28.1	ug/m3	1.4	02/28/16 21:20	
TO-15	Ethylbenzene	5.5	ug/m3	1.3	02/28/16 21:20	
TO-15	4-Ethyltoluene	2.4	ug/m3	1.4	02/28/16 21:20	
TO-15	n-Heptane	3.3	ug/m3	1.2	02/28/16 21:20	
TO-15	n-Hexane	4.3	ug/m3	1.0	02/28/16 21:20	
TO-15	2-Propanol	175	ug/m3	3.6	02/28/16 21:20	
TO-15	Toluene	23.7	ug/m3	1.1	02/28/16 21:20	
TO-15	1,1,1-Trichloroethane	6.7	ug/m3	1.6	02/28/16 21:20	
TO-15	Trichloroethene	26.3	ug/m3	0.79	02/28/16 21:20	
TO-15	1,2,4-Trimethylbenzene	7.1	ug/m3	1.4	02/28/16 21:20	
TO-15	1,3,5-Trimethylbenzene	1.8	ug/m3	1.4	02/28/16 21:20	
TO-15	m&p-Xylene	21.1	ug/m3	2.5	02/28/16 21:20	
TO-15	o-Xylene	7.0	ug/m3	1.3	02/28/16 21:20	
10339307003	**R-SSV-3**					
TO-15	Acetone	22.8	ug/m3	3.4	02/28/16 21:47	
TO-15	Benzene	3.1	ug/m3	0.45	02/28/16 21:47	
TO-15	Cyclohexane	2.2	ug/m3	0.97	02/28/16 21:47	
TO-15	Ethanol	26.8	ug/m3	1.3	02/28/16 21:47	
TO-15	Ethylbenzene	3.4	ug/m3	1.2	02/28/16 21:47	
TO-15	4-Ethyltoluene	1.5	ug/m3	1.4	02/28/16 21:47	
TO-15	n-Heptane	3.4	ug/m3	1.2	02/28/16 21:47	
TO-15	n-Hexane	5.1	ug/m3	1.0	02/28/16 21:47	
TO-15	Methylene Chloride	121	ug/m3	4.9	02/28/16 21:47	
TO-15	2-Propanol	117	ug/m3	3.5	02/28/16 21:47	

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Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10339307003	**R-SSV-3**					
TO-15	Tetrachloroethene	1.2	ug/m3	0.96	02/28/16 21:47	
TO-15	Tetrahydrofuran	1.5	ug/m3	0.83	02/28/16 21:47	
TO-15	Toluene	21.3	ug/m3	1.1	02/28/16 21:47	
TO-15	1,1,1-Trichloroethane	2.2	ug/m3	1.5	02/28/16 21:47	
TO-15	Trichloroethene	49.5	ug/m3	0.76	02/28/16 21:47	
TO-15	Trichlorofluoromethane	2.0	ug/m3	1.6	02/28/16 21:47	
TO-15	1,2,4-Trimethylbenzene	4.1	ug/m3	1.4	02/28/16 21:47	
TO-15	m&p-Xylene	13.2	ug/m3	2.5	02/28/16 21:47	
TO-15	o-Xylene	4.4	ug/m3	1.2	02/28/16 21:47	
10339307004	**R-SSV-4**					
TO-15	Acetone	60.7	ug/m3	3.4	02/28/16 22:13	
TO-15	Benzene	2.7	ug/m3	0.45	02/28/16 22:13	
TO-15	2-Butanone (MEK)	5.7	ug/m3	4.2	02/28/16 22:13	
TO-15	Carbon disulfide	5.8	ug/m3	0.88	02/28/16 22:13	
TO-15	Cyclohexane	1.8	ug/m3	0.97	02/28/16 22:13	
TO-15	Dichlorodifluoromethane	4.9	ug/m3	1.4	02/28/16 22:13	
TO-15	Ethanol	40.9	ug/m3	1.3	02/28/16 22:13	
TO-15	Ethylbenzene	4.2	ug/m3	1.2	02/28/16 22:13	
TO-15	4-Ethyltoluene	2.6	ug/m3	1.4	02/28/16 22:13	
TO-15	n-Heptane	2.9	ug/m3	1.2	02/28/16 22:13	
TO-15	n-Hexane	7.1	ug/m3	1.0	02/28/16 22:13	
TO-15	Methylene Chloride	58.4	ug/m3	4.9	02/28/16 22:13	
TO-15	2-Propanol	142	ug/m3	3.5	02/28/16 22:13	
TO-15	Propylene	1.3	ug/m3	0.49	02/28/16 22:13	
TO-15	Tetrachloroethene	9.6	ug/m3	0.96	02/28/16 22:13	
TO-15	Tetrahydrofuran	3.6	ug/m3	0.83	02/28/16 22:13	
TO-15	Toluene	18.9	ug/m3	1.1	02/28/16 22:13	
TO-15	1,1,1-Trichloroethane	3.6	ug/m3	1.5	02/28/16 22:13	
TO-15	Trichloroethene	117	ug/m3	0.76	02/28/16 22:13	
TO-15	Trichlorofluoromethane	2.2	ug/m3	1.6	02/28/16 22:13	
TO-15	1,2,4-Trimethylbenzene	6.8	ug/m3	1.4	02/28/16 22:13	
TO-15	1,3,5-Trimethylbenzene	1.5	ug/m3	1.4	02/28/16 22:13	
TO-15	Vinyl acetate	1.0	ug/m3	1.0	02/28/16 22:13	
TO-15	m&p-Xylene	17.2	ug/m3	2.5	02/28/16 22:13	
TO-15	o-Xylene	5.6	ug/m3	1.2	02/28/16 22:13	
10339307005	**R-SSV-5**					
TO-15	Acetone	60.1	ug/m3	3.4	02/28/16 22:39	
TO-15	Benzene	3.0	ug/m3	0.45	02/28/16 22:39	
TO-15	Cyclohexane	1.9	ug/m3	0.97	02/28/16 22:39	
TO-15	Dichlorodifluoromethane	1.8	ug/m3	1.4	02/28/16 22:39	
TO-15	Ethanol	41.6	ug/m3	1.3	02/28/16 22:39	
TO-15	Ethylbenzene	4.7	ug/m3	1.2	02/28/16 22:39	
TO-15	4-Ethyltoluene	2.1	ug/m3	1.4	02/28/16 22:39	
TO-15	n-Heptane	2.9	ug/m3	1.2	02/28/16 22:39	
TO-15	n-Hexane	3.3	ug/m3	1.0	02/28/16 22:39	
TO-15	2-Propanol	168	ug/m3	3.5	02/28/16 22:39	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10339307005	**R-SSV-5**					
TO-15	Tetrachloroethene	2.2	ug/m3	0.96	02/28/16 22:39	
TO-15	Tetrahydrofuran	2.0	ug/m3	0.83	02/28/16 22:39	
TO-15	Toluene	20.4	ug/m3	1.1	02/28/16 22:39	
TO-15	1,1,1-Trichloroethane	2.7	ug/m3	1.5	02/28/16 22:39	
TO-15	Trichloroethene	41.1	ug/m3	0.76	02/28/16 22:39	
TO-15	1,2,4-Trimethylbenzene	6.3	ug/m3	1.4	02/28/16 22:39	
TO-15	1,3,5-Trimethylbenzene	1.5	ug/m3	1.4	02/28/16 22:39	
TO-15	m&p-Xylene	18.7	ug/m3	2.5	02/28/16 22:39	
TO-15	o-Xylene	6.2	ug/m3	1.2	02/28/16 22:39	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Date: March 02, 2016

R-SSV-1 (Lab ID: 10339307001)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

R-SSV-2 (Lab ID: 10339307002)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

R-SSV-3 (Lab ID: 10339307003)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

R-SSV-4 (Lab ID: 10339307004)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

R-SSV-5 (Lab ID: 10339307005)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: March 02, 2016

General Information:
5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: AIR/25332

IQ: The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

- R-SSV-3 (Lab ID: 10339307003)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Method: **TO-15**
Description: Individual Can Certification
Client: AECOM- MN ND
Date: March 02, 2016

General Information:
5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-1 **Lab ID: 10339307001** Collected: 02/19/16 14:25 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**90.1**	ug/m3	3.2	1.1	1.34		02/28/16 20:54	67-64-1	
Benzene	**4.2**	ug/m3	0.44	0.16	1.34		02/28/16 20:54	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		02/28/16 20:54	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		02/28/16 20:54	75-27-4	
Bromoform	ND	ug/m3	2.8	1.2	1.34		02/28/16 20:54	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		02/28/16 20:54	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		02/28/16 20:54	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.0	0.31	1.34		02/28/16 20:54	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		02/28/16 20:54	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		02/28/16 20:54	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		02/28/16 20:54	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		02/28/16 20:54	75-00-3	
Chloroform	**0.91**	ug/m3	0.66	0.25	1.34		02/28/16 20:54	67-66-3	
Chloromethane	ND	ug/m3	0.56	0.14	1.34		02/28/16 20:54	74-87-3	
Cyclohexane	**2.4**	ug/m3	0.94	0.42	1.34		02/28/16 20:54	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		02/28/16 20:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		02/28/16 20:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		02/28/16 20:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.71	1.34		02/28/16 20:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		02/28/16 20:54	106-46-7	
Dichlorodifluoromethane	**3.3**	ug/m3	1.4	0.64	1.34		02/28/16 20:54	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		02/28/16 20:54	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		02/28/16 20:54	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		02/28/16 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		02/28/16 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		02/28/16 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		02/28/16 20:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		02/28/16 20:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		02/28/16 20:54	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		02/28/16 20:54	76-14-2	
Ethanol	**65.4**	ug/m3	1.3	0.36	1.34		02/28/16 20:54	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		02/28/16 20:54	141-78-6	
Ethylbenzene	**5.7**	ug/m3	1.2	0.57	1.34		02/28/16 20:54	100-41-4	
4-Ethyltoluene	**2.5**	ug/m3	1.3	0.25	1.34		02/28/16 20:54	622-96-8	
n-Heptane	**3.8**	ug/m3	1.1	0.37	1.34		02/28/16 20:54	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		02/28/16 20:54	87-68-3	
n-Hexane	**4.3**	ug/m3	0.96	0.48	1.34		02/28/16 20:54	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		02/28/16 20:54	591-78-6	
Methylene Chloride	ND	ug/m3	4.7	0.73	1.34		02/28/16 20:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		02/28/16 20:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		02/28/16 20:54	1634-04-4	
Naphthalene	ND	ug/m3	3.6	0.41	1.34		02/28/16 20:54	91-20-3	
2-Propanol	**238**	ug/m3	3.4	0.32	1.34		02/28/16 20:54	67-63-0	
Propylene	ND	ug/m3	0.47	0.18	1.34		02/28/16 20:54	115-07-1	
Styrene	ND	ug/m3	1.2	0.26	1.34		02/28/16 20:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		02/28/16 20:54	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-1 **Lab ID: 10339307001** Collected: 02/19/16 14:25 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.92	0.37	1.34		02/28/16 20:54	127-18-4	
Tetrahydrofuran	**2.6**	ug/m3	0.80	0.16	1.34		02/28/16 20:54	109-99-9	
Toluene	**24.6**	ug/m3	1.0	0.21	1.34		02/28/16 20:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.2	1.34		02/28/16 20:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		02/28/16 20:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		02/28/16 20:54	79-00-5	
Trichloroethene	**15.3**	ug/m3	0.74	0.37	1.34		02/28/16 20:54	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.18	1.34		02/28/16 20:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		02/28/16 20:54	76-13-1	
1,2,4-Trimethylbenzene	**7.6**	ug/m3	1.3	0.17	1.34		02/28/16 20:54	95-63-6	
1,3,5-Trimethylbenzene	**1.8**	ug/m3	1.3	0.25	1.34		02/28/16 20:54	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		02/28/16 20:54	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		02/28/16 20:54	75-01-4	
m&p-Xylene	**21.8**	ug/m3	2.4	1.1	1.34		02/28/16 20:54	179601-23-1	
o-Xylene	**7.3**	ug/m3	1.2	0.47	1.34		02/28/16 20:54	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-2 **Lab ID: 10339307002** Collected: 02/19/16 14:13 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**42.7**	ug/m3	3.5	1.2	1.44		02/28/16 21:20	67-64-1	
Benzene	**5.7**	ug/m3	0.47	0.18	1.44		02/28/16 21:20	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.24	1.44		02/28/16 21:20	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		02/28/16 21:20	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		02/28/16 21:20	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		02/28/16 21:20	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		02/28/16 21:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.33	1.44		02/28/16 21:20	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		02/28/16 21:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		02/28/16 21:20	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		02/28/16 21:20	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		02/28/16 21:20	75-00-3	
Chloroform	ND	ug/m3	0.71	0.27	1.44		02/28/16 21:20	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		02/28/16 21:20	74-87-3	
Cyclohexane	**3.4**	ug/m3	1.0	0.46	1.44		02/28/16 21:20	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		02/28/16 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		02/28/16 21:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		02/28/16 21:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.44		02/28/16 21:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		02/28/16 21:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.69	1.44		02/28/16 21:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		02/28/16 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		02/28/16 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		02/28/16 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		02/28/16 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		02/28/16 21:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		02/28/16 21:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		02/28/16 21:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.37	1.44		02/28/16 21:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		02/28/16 21:20	76-14-2	
Ethanol	**28.1**	ug/m3	1.4	0.38	1.44		02/28/16 21:20	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		02/28/16 21:20	141-78-6	
Ethylbenzene	**5.5**	ug/m3	1.3	0.61	1.44		02/28/16 21:20	100-41-4	
4-Ethyltoluene	**2.4**	ug/m3	1.4	0.27	1.44		02/28/16 21:20	622-96-8	
n-Heptane	**3.3**	ug/m3	1.2	0.40	1.44		02/28/16 21:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		02/28/16 21:20	87-68-3	
n-Hexane	**4.3**	ug/m3	1.0	0.51	1.44		02/28/16 21:20	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		02/28/16 21:20	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		02/28/16 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		02/28/16 21:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		02/28/16 21:20	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		02/28/16 21:20	91-20-3	
2-Propanol	**175**	ug/m3	3.6	0.35	1.44		02/28/16 21:20	67-63-0	
Propylene	ND	ug/m3	0.50	0.19	1.44		02/28/16 21:20	115-07-1	
Styrene	ND	ug/m3	1.3	0.28	1.44		02/28/16 21:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		02/28/16 21:20	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-2 **Lab ID: 10339307002** Collected: 02/19/16 14:13 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.99	0.40	1.44		02/28/16 21:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		02/28/16 21:20	109-99-9	
Toluene	**23.7**	ug/m3	1.1	0.22	1.44		02/28/16 21:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		02/28/16 21:20	120-82-1	
1,1,1-Trichloroethane	**6.7**	ug/m3	1.6	0.36	1.44		02/28/16 21:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		02/28/16 21:20	79-00-5	
Trichloroethene	**26.3**	ug/m3	0.79	0.40	1.44		02/28/16 21:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.19	1.44		02/28/16 21:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		02/28/16 21:20	76-13-1	
1,2,4-Trimethylbenzene	**7.1**	ug/m3	1.4	0.18	1.44		02/28/16 21:20	95-63-6	
1,3,5-Trimethylbenzene	**1.8**	ug/m3	1.4	0.26	1.44		02/28/16 21:20	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		02/28/16 21:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		02/28/16 21:20	75-01-4	
m&p-Xylene	**21.1**	ug/m3	2.5	1.1	1.44		02/28/16 21:20	179601-23-1	
o-Xylene	**7.0**	ug/m3	1.3	0.51	1.44		02/28/16 21:20	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-3 **Lab ID: 10339307003** Collected: 02/19/16 14:19 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.8**	ug/m3	3.4	1.2	1.39		02/28/16 21:47	67-64-1	
Benzene	**3.1**	ug/m3	0.45	0.17	1.39		02/28/16 21:47	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/28/16 21:47	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/28/16 21:47	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		02/28/16 21:47	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/28/16 21:47	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/28/16 21:47	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		02/28/16 21:47	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/28/16 21:47	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/28/16 21:47	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/28/16 21:47	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/28/16 21:47	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/28/16 21:47	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/28/16 21:47	74-87-3	
Cyclohexane	**2.2**	ug/m3	0.97	0.44	1.39		02/28/16 21:47	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/28/16 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/28/16 21:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/28/16 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/28/16 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/28/16 21:47	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.67	1.39		02/28/16 21:47	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/28/16 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/28/16 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/28/16 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/28/16 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/28/16 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/28/16 21:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/28/16 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/28/16 21:47	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/28/16 21:47	76-14-2	
Ethanol	**26.8**	ug/m3	1.3	0.37	1.39		02/28/16 21:47	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/28/16 21:47	141-78-6	
Ethylbenzene	**3.4**	ug/m3	1.2	0.59	1.39		02/28/16 21:47	100-41-4	
4-Ethyltoluene	**1.5**	ug/m3	1.4	0.26	1.39		02/28/16 21:47	622-96-8	
n-Heptane	**3.4**	ug/m3	1.2	0.39	1.39		02/28/16 21:47	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/28/16 21:47	87-68-3	
n-Hexane	**5.1**	ug/m3	1.0	0.50	1.39		02/28/16 21:47	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/28/16 21:47	591-78-6	
Methylene Chloride	**121**	ug/m3	4.9	0.75	1.39		02/28/16 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/28/16 21:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/28/16 21:47	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		02/28/16 21:47	91-20-3	
2-Propanol	**117**	ug/m3	3.5	0.33	1.39		02/28/16 21:47	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/28/16 21:47	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/28/16 21:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/28/16 21:47	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-3 **Lab ID: 10339307003** Collected: 02/19/16 14:19 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**1.2**	ug/m3	0.96	0.39	1.39		02/28/16 21:47	127-18-4	
Tetrahydrofuran	**1.5**	ug/m3	0.83	0.17	1.39		02/28/16 21:47	109-99-9	
Toluene	**21.3**	ug/m3	1.1	0.21	1.39		02/28/16 21:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/28/16 21:47	120-82-1	
1,1,1-Trichloroethane	**2.2**	ug/m3	1.5	0.34	1.39		02/28/16 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/28/16 21:47	79-00-5	
Trichloroethene	**49.5**	ug/m3	0.76	0.38	1.39		02/28/16 21:47	79-01-6	
Trichlorofluoromethane	**2.0**	ug/m3	1.6	0.18	1.39		02/28/16 21:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/28/16 21:47	76-13-1	
1,2,4-Trimethylbenzene	**4.1**	ug/m3	1.4	0.17	1.39		02/28/16 21:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		02/28/16 21:47	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		02/28/16 21:47	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/28/16 21:47	75-01-4	
m&p-Xylene	**13.2**	ug/m3	2.5	1.1	1.39		02/28/16 21:47	179601-23-1	
o-Xylene	**4.4**	ug/m3	1.2	0.49	1.39		02/28/16 21:47	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-4 **Lab ID: 10339307004** Collected: 02/19/16 14:17 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**60.7**	ug/m3	3.4	1.2	1.39		02/28/16 22:13	67-64-1	
Benzene	**2.7**	ug/m3	0.45	0.17	1.39		02/28/16 22:13	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/28/16 22:13	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/28/16 22:13	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		02/28/16 22:13	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/28/16 22:13	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/28/16 22:13	106-99-0	
2-Butanone (MEK)	**5.7**	ug/m3	4.2	0.32	1.39		02/28/16 22:13	78-93-3	
Carbon disulfide	**5.8**	ug/m3	0.88	0.14	1.39		02/28/16 22:13	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/28/16 22:13	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/28/16 22:13	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/28/16 22:13	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/28/16 22:13	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/28/16 22:13	74-87-3	
Cyclohexane	**1.8**	ug/m3	0.97	0.44	1.39		02/28/16 22:13	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/28/16 22:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/28/16 22:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/28/16 22:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/28/16 22:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/28/16 22:13	106-46-7	
Dichlorodifluoromethane	**4.9**	ug/m3	1.4	0.67	1.39		02/28/16 22:13	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/28/16 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/28/16 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/28/16 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/28/16 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/28/16 22:13	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/28/16 22:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/28/16 22:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/28/16 22:13	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/28/16 22:13	76-14-2	
Ethanol	**40.9**	ug/m3	1.3	0.37	1.39		02/28/16 22:13	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/28/16 22:13	141-78-6	
Ethylbenzene	**4.2**	ug/m3	1.2	0.59	1.39		02/28/16 22:13	100-41-4	
4-Ethyltoluene	**2.6**	ug/m3	1.4	0.26	1.39		02/28/16 22:13	622-96-8	
n-Heptane	**2.9**	ug/m3	1.2	0.39	1.39		02/28/16 22:13	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/28/16 22:13	87-68-3	
n-Hexane	**7.1**	ug/m3	1.0	0.50	1.39		02/28/16 22:13	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/28/16 22:13	591-78-6	
Methylene Chloride	**58.4**	ug/m3	4.9	0.75	1.39		02/28/16 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/28/16 22:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/28/16 22:13	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		02/28/16 22:13	91-20-3	
2-Propanol	**142**	ug/m3	3.5	0.33	1.39		02/28/16 22:13	67-63-0	
Propylene	**1.3**	ug/m3	0.49	0.19	1.39		02/28/16 22:13	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/28/16 22:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/28/16 22:13	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-4 **Lab ID: 10339307004** Collected: 02/19/16 14:17 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**9.6**	ug/m3	0.96	0.39	1.39		02/28/16 22:13	127-18-4	
Tetrahydrofuran	**3.6**	ug/m3	0.83	0.17	1.39		02/28/16 22:13	109-99-9	
Toluene	**18.9**	ug/m3	1.1	0.21	1.39		02/28/16 22:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/28/16 22:13	120-82-1	
1,1,1-Trichloroethane	**3.6**	ug/m3	1.5	0.34	1.39		02/28/16 22:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/28/16 22:13	79-00-5	
Trichloroethene	**117**	ug/m3	0.76	0.38	1.39		02/28/16 22:13	79-01-6	
Trichlorofluoromethane	**2.2**	ug/m3	1.6	0.18	1.39		02/28/16 22:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/28/16 22:13	76-13-1	
1,2,4-Trimethylbenzene	**6.8**	ug/m3	1.4	0.17	1.39		02/28/16 22:13	95-63-6	
1,3,5-Trimethylbenzene	**1.5**	ug/m3	1.4	0.25	1.39		02/28/16 22:13	108-67-8	
Vinyl acetate	**1.0**	ug/m3	1.0	0.46	1.39		02/28/16 22:13	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/28/16 22:13	75-01-4	
m&p-Xylene	**17.2**	ug/m3	2.5	1.1	1.39		02/28/16 22:13	179601-23-1	
o-Xylene	**5.6**	ug/m3	1.2	0.49	1.39		02/28/16 22:13	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-5 **Lab ID: 10339307005** Collected: 02/19/16 14:15 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**60.1**	ug/m3	3.4	1.2	1.39		02/28/16 22:39	67-64-1	
Benzene	**3.0**	ug/m3	0.45	0.17	1.39		02/28/16 22:39	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		02/28/16 22:39	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		02/28/16 22:39	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		02/28/16 22:39	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		02/28/16 22:39	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		02/28/16 22:39	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		02/28/16 22:39	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		02/28/16 22:39	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		02/28/16 22:39	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		02/28/16 22:39	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		02/28/16 22:39	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		02/28/16 22:39	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		02/28/16 22:39	74-87-3	
Cyclohexane	**1.9**	ug/m3	0.97	0.44	1.39		02/28/16 22:39	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		02/28/16 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		02/28/16 22:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		02/28/16 22:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		02/28/16 22:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		02/28/16 22:39	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.4	0.67	1.39		02/28/16 22:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		02/28/16 22:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		02/28/16 22:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/28/16 22:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		02/28/16 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		02/28/16 22:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		02/28/16 22:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		02/28/16 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		02/28/16 22:39	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		02/28/16 22:39	76-14-2	
Ethanol	**41.6**	ug/m3	1.3	0.37	1.39		02/28/16 22:39	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		02/28/16 22:39	141-78-6	
Ethylbenzene	**4.7**	ug/m3	1.2	0.59	1.39		02/28/16 22:39	100-41-4	
4-Ethyltoluene	**2.1**	ug/m3	1.4	0.26	1.39		02/28/16 22:39	622-96-8	
n-Heptane	**2.9**	ug/m3	1.2	0.39	1.39		02/28/16 22:39	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		02/28/16 22:39	87-68-3	
n-Hexane	**3.3**	ug/m3	1.0	0.50	1.39		02/28/16 22:39	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		02/28/16 22:39	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	0.75	1.39		02/28/16 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		02/28/16 22:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		02/28/16 22:39	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		02/28/16 22:39	91-20-3	
2-Propanol	**168**	ug/m3	3.5	0.33	1.39		02/28/16 22:39	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		02/28/16 22:39	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		02/28/16 22:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		02/28/16 22:39	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-5 **Lab ID: 10339307005** Collected: 02/19/16 14:15 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2.2**	ug/m3	0.96	0.39	1.39		02/28/16 22:39	127-18-4	
Tetrahydrofuran	**2.0**	ug/m3	0.83	0.17	1.39		02/28/16 22:39	109-99-9	
Toluene	**20.4**	ug/m3	1.1	0.21	1.39		02/28/16 22:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		02/28/16 22:39	120-82-1	
1,1,1-Trichloroethane	**2.7**	ug/m3	1.5	0.34	1.39		02/28/16 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		02/28/16 22:39	79-00-5	
Trichloroethene	**41.1**	ug/m3	0.76	0.38	1.39		02/28/16 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.18	1.39		02/28/16 22:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		02/28/16 22:39	76-13-1	
1,2,4-Trimethylbenzene	**6.3**	ug/m3	1.4	0.17	1.39		02/28/16 22:39	95-63-6	
1,3,5-Trimethylbenzene	**1.5**	ug/m3	1.4	0.25	1.39		02/28/16 22:39	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		02/28/16 22:39	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		02/28/16 22:39	75-01-4	
m&p-Xylene	**18.7**	ug/m3	2.5	1.1	1.39		02/28/16 22:39	179601-23-1	
o-Xylene	**6.2**	ug/m3	1.2	0.49	1.39		02/28/16 22:39	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-1 Can Cert **Lab ID: 10339307006** Collected: 02/19/16 14:25 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		02/15/16 10:52	67-64-1	
Benzene	ND	ug/m3	0.65	0.12	1		02/15/16 10:52	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		02/15/16 10:52	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		02/15/16 10:52	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		02/15/16 10:52	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		02/15/16 10:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		02/15/16 10:52	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		02/15/16 10:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		02/15/16 10:52	75-15-0	
Carbon tetrachloride	ND	ug/m3	6.4	0.19	1		02/15/16 10:52	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		02/15/16 10:52	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		02/15/16 10:52	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		02/15/16 10:52	67-66-3	
Chloromethane	ND	ug/m3	1.0	0.11	1		02/15/16 10:52	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		02/15/16 10:52	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		02/15/16 10:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		02/15/16 10:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		02/15/16 10:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		02/15/16 10:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		02/15/16 10:52	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		02/15/16 10:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		02/15/16 10:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		02/15/16 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.0	0.24	1		02/15/16 10:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		02/15/16 10:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		02/15/16 10:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		02/15/16 10:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		02/15/16 10:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		02/15/16 10:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.6	0.31	1		02/15/16 10:52	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		02/15/16 10:52	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		02/15/16 10:52	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		02/15/16 10:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		02/15/16 10:52	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		02/15/16 10:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		02/15/16 10:52	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		02/15/16 10:52	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		02/15/16 10:52	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		02/15/16 10:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		02/15/16 10:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		02/15/16 10:52	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		02/15/16 10:52	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		02/15/16 10:52	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		02/15/16 10:52	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		02/15/16 10:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		02/15/16 10:52	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-1 Can Cert **Lab ID: 10339307006** Collected: 02/19/16 14:25 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		02/15/16 10:52	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		02/15/16 10:52	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		02/15/16 10:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		02/15/16 10:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		02/15/16 10:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		02/15/16 10:52	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		02/15/16 10:52	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		02/15/16 10:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		02/15/16 10:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		02/15/16 10:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		02/15/16 10:52	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		02/15/16 10:52	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		02/15/16 10:52	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		02/15/16 10:52	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		02/15/16 10:52	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-2 Can Cert **Lab ID: 10339307007** Collected: 02/19/16 14:13 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		02/13/16 16:12	67-64-1	
Benzene	ND	ug/m3	0.65	0.12	1		02/13/16 16:12	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		02/13/16 16:12	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		02/13/16 16:12	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		02/13/16 16:12	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		02/13/16 16:12	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		02/13/16 16:12	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		02/13/16 16:12	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		02/13/16 16:12	75-15-0	
Carbon tetrachloride	ND	ug/m3	6.4	0.19	1		02/13/16 16:12	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		02/13/16 16:12	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		02/13/16 16:12	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		02/13/16 16:12	67-66-3	
Chloromethane	ND	ug/m3	1.0	0.11	1		02/13/16 16:12	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		02/13/16 16:12	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		02/13/16 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		02/13/16 16:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		02/13/16 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		02/13/16 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		02/13/16 16:12	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		02/13/16 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		02/13/16 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		02/13/16 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.0	0.24	1		02/13/16 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		02/13/16 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		02/13/16 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		02/13/16 16:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		02/13/16 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		02/13/16 16:12	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.6	0.31	1		02/13/16 16:12	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		02/13/16 16:12	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		02/13/16 16:12	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		02/13/16 16:12	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		02/13/16 16:12	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		02/13/16 16:12	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		02/13/16 16:12	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		02/13/16 16:12	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		02/13/16 16:12	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		02/13/16 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		02/13/16 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		02/13/16 16:12	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		02/13/16 16:12	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		02/13/16 16:12	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		02/13/16 16:12	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		02/13/16 16:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		02/13/16 16:12	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-2 Can Cert **Lab ID: 10339307007** Collected: 02/19/16 14:13 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		02/13/16 16:12	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		02/13/16 16:12	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		02/13/16 16:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		02/13/16 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		02/13/16 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		02/13/16 16:12	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		02/13/16 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		02/13/16 16:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		02/13/16 16:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		02/13/16 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		02/13/16 16:12	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		02/13/16 16:12	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		02/13/16 16:12	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		02/13/16 16:12	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		02/13/16 16:12	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-3 Can Cert **Lab ID: 10339307008** Collected: 02/19/16 14:19 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		02/15/16 09:15	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		02/15/16 09:15	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		02/15/16 09:15	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		02/15/16 09:15	75-27-4	
Bromoform	ND	ug/m3	10.5	0.90	1		02/15/16 09:15	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		02/15/16 09:15	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		02/15/16 09:15	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		02/15/16 09:15	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		02/15/16 09:15	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		02/15/16 09:15	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		02/15/16 09:15	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		02/15/16 09:15	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		02/15/16 09:15	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		02/15/16 09:15	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		02/15/16 09:15	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		02/15/16 09:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		02/15/16 09:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		02/15/16 09:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		02/15/16 09:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		02/15/16 09:15	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		02/15/16 09:15	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		02/15/16 09:15	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		02/15/16 09:15	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		02/15/16 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		02/15/16 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		02/15/16 09:15	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		02/15/16 09:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		02/15/16 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		02/15/16 09:15	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		02/15/16 09:15	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		02/15/16 09:15	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		02/15/16 09:15	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		02/15/16 09:15	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		02/15/16 09:15	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		02/15/16 09:15	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		02/15/16 09:15	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		02/15/16 09:15	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		02/15/16 09:15	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		02/15/16 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		02/15/16 09:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		02/15/16 09:15	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		02/15/16 09:15	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		02/15/16 09:15	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		02/15/16 09:15	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		02/15/16 09:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		02/15/16 09:15	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-3 Can Cert **Lab ID: 10339307008** Collected: 02/19/16 14:19 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		02/15/16 09:15	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		02/15/16 09:15	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		02/15/16 09:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		02/15/16 09:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		02/15/16 09:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		02/15/16 09:15	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		02/15/16 09:15	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		02/15/16 09:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		02/15/16 09:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		02/15/16 09:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		02/15/16 09:15	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		02/15/16 09:15	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		02/15/16 09:15	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		02/15/16 09:15	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		02/15/16 09:15	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-4 Can Cert **Lab ID: 10339307009** Collected: 02/19/16 14:17 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		02/16/16 09:46	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		02/16/16 09:46	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		02/16/16 09:46	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		02/16/16 09:46	75-27-4	
Bromoform	ND	ug/m3	5.3	0.11	1		02/16/16 09:46	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		02/16/16 09:46	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		02/16/16 09:46	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		02/16/16 09:46	78-93-3	
Carbon disulfide	ND	ug/m3	1.6	0.038	1		02/16/16 09:46	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.068	1		02/16/16 09:46	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		02/16/16 09:46	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		02/16/16 09:46	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		02/16/16 09:46	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		02/16/16 09:46	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		02/16/16 09:46	110-82-7	
Dibromochloromethane	ND	ug/m3	8.7	0.87	1		02/16/16 09:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		02/16/16 09:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		02/16/16 09:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		02/16/16 09:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.1	0.062	1		02/16/16 09:46	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		02/16/16 09:46	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		02/16/16 09:46	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		02/16/16 09:46	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		02/16/16 09:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		02/16/16 09:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		02/16/16 09:46	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		02/16/16 09:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		02/16/16 09:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		02/16/16 09:46	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		02/16/16 09:46	76-14-2	
Ethanol	ND	ug/m3	4.8	0.96	1		02/16/16 09:46	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		02/16/16 09:46	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		02/16/16 09:46	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.0	0.50	1		02/16/16 09:46	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		02/16/16 09:46	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		02/16/16 09:46	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		02/16/16 09:46	110-54-3	
2-Hexanone	ND	ug/m3	10.4	2.1	1		02/16/16 09:46	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		02/16/16 09:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		02/16/16 09:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		02/16/16 09:46	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		02/16/16 09:46	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		02/16/16 09:46	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		02/16/16 09:46	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		02/16/16 09:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		02/16/16 09:46	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-4 Can Cert **Lab ID: 10339307009** Collected: 02/19/16 14:17 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		02/16/16 09:46	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		02/16/16 09:46	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		02/16/16 09:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		02/16/16 09:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		02/16/16 09:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		02/16/16 09:46	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		02/16/16 09:46	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		02/16/16 09:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		02/16/16 09:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.5	0.052	1		02/16/16 09:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.50	1		02/16/16 09:46	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		02/16/16 09:46	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		02/16/16 09:46	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		02/16/16 09:46	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		02/16/16 09:46	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-5 Can Cert **Lab ID: 10339307010** Collected: 02/19/16 14:15 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		02/15/16 10:36	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		02/15/16 10:36	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		02/15/16 10:36	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		02/15/16 10:36	75-27-4	
Bromoform	ND	ug/m3	5.3	0.11	1		02/15/16 10:36	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		02/15/16 10:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		02/15/16 10:36	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		02/15/16 10:36	78-93-3	
Carbon disulfide	ND	ug/m3	1.6	0.038	1		02/15/16 10:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.068	1		02/15/16 10:36	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		02/15/16 10:36	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		02/15/16 10:36	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		02/15/16 10:36	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		02/15/16 10:36	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		02/15/16 10:36	110-82-7	
Dibromochloromethane	ND	ug/m3	8.7	0.87	1		02/15/16 10:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		02/15/16 10:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		02/15/16 10:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		02/15/16 10:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.1	0.062	1		02/15/16 10:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		02/15/16 10:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		02/15/16 10:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		02/15/16 10:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		02/15/16 10:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		02/15/16 10:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		02/15/16 10:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		02/15/16 10:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		02/15/16 10:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		02/15/16 10:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		02/15/16 10:36	76-14-2	
Ethanol	ND	ug/m3	4.8	0.96	1		02/15/16 10:36	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		02/15/16 10:36	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		02/15/16 10:36	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.0	0.50	1		02/15/16 10:36	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		02/15/16 10:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		02/15/16 10:36	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		02/15/16 10:36	110-54-3	
2-Hexanone	ND	ug/m3	10.4	2.1	1		02/15/16 10:36	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		02/15/16 10:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		02/15/16 10:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		02/15/16 10:36	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		02/15/16 10:36	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		02/15/16 10:36	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		02/15/16 10:36	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		02/15/16 10:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		02/15/16 10:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Sample: R-SSV-5 Can Cert **Lab ID: 10339307010** Collected: 02/19/16 14:15 Received: 02/22/16 11:12 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		02/15/16 10:36	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		02/15/16 10:36	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		02/15/16 10:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		02/15/16 10:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		02/15/16 10:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		02/15/16 10:36	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		02/15/16 10:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		02/15/16 10:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		02/15/16 10:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.5	0.052	1		02/15/16 10:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.50	1		02/15/16 10:36	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	0.045	1		02/15/16 10:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		02/15/16 10:36	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		02/15/16 10:36	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		02/15/16 10:36	95-47-6	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

QC Batch: AIR/25332 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10339307001, 10339307002, 10339307003, 10339307004, 10339307005

METHOD BLANK: 2200166 Matrix: Air
Associated Lab Samples: 10339307001, 10339307002, 10339307003, 10339307004, 10339307005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	02/28/16 10:57	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	02/28/16 10:57	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	02/28/16 10:57	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	02/28/16 10:57	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	02/28/16 10:57	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	02/28/16 10:57	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	0.91	02/28/16 10:57	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	02/28/16 10:57	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	02/28/16 10:57	
1,2-Dichlorobenzene	ug/m3	ND	1.2	0.51	02/28/16 10:57	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	02/28/16 10:57	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	02/28/16 10:57	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	02/28/16 10:57	
1,3-Butadiene	ug/m3	ND	0.45	0.18	02/28/16 10:57	
1,3-Dichlorobenzene	ug/m3	ND	1.2	0.53	02/28/16 10:57	
1,4-Dichlorobenzene	ug/m3	ND	1.2	0.50	02/28/16 10:57	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	02/28/16 10:57	
2-Hexanone	ug/m3	ND	4.2	0.41	02/28/16 10:57	
2-Propanol	ug/m3	ND	2.5	0.24	02/28/16 10:57	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	02/28/16 10:57	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	02/28/16 10:57	
Acetone	ug/m3	ND	2.4	0.83	02/28/16 10:57	
Benzene	ug/m3	ND	0.32	0.12	02/28/16 10:57	
Benzyl chloride	ug/m3	ND	1.0	0.17	02/28/16 10:57	
Bromodichloromethane	ug/m3	ND	1.4	0.19	02/28/16 10:57	
Bromoform	ug/m3	ND	2.1	0.90	02/28/16 10:57	
Bromomethane	ug/m3	ND	0.79	0.31	02/28/16 10:57	
Carbon disulfide	ug/m3	ND	0.63	0.10	02/28/16 10:57	
Carbon tetrachloride	ug/m3	ND	0.64	0.19	02/28/16 10:57	
Chlorobenzene	ug/m3	ND	0.94	0.13	02/28/16 10:57	
Chloroethane	ug/m3	ND	0.54	0.19	02/28/16 10:57	
Chloroform	ug/m3	ND	0.50	0.19	02/28/16 10:57	
Chloromethane	ug/m3	ND	0.42	0.11	02/28/16 10:57	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	02/28/16 10:57	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	02/28/16 10:57	
Cyclohexane	ug/m3	ND	0.70	0.32	02/28/16 10:57	
Dibromochloromethane	ug/m3	ND	1.7	0.86	02/28/16 10:57	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	02/28/16 10:57	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	02/28/16 10:57	
Ethanol	ug/m3	ND	0.96	0.26	02/28/16 10:57	
Ethyl acetate	ug/m3	ND	0.73	0.35	02/28/16 10:57	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

METHOD BLANK: 2200166 Matrix: Air
Associated Lab Samples: 10339307001, 10339307002, 10339307003, 10339307004, 10339307005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	0.42	02/28/16 10:57	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	0.65	02/28/16 10:57	
m&p-Xylene	ug/m3	ND	1.8	0.79	02/28/16 10:57	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	02/28/16 10:57	
Methylene Chloride	ug/m3	ND	3.5	0.54	02/28/16 10:57	
n-Heptane	ug/m3	ND	0.83	0.28	02/28/16 10:57	
n-Hexane	ug/m3	ND	0.72	0.36	02/28/16 10:57	
Naphthalene	ug/m3	ND	2.7	0.30	02/28/16 10:57	
o-Xylene	ug/m3	ND	0.88	0.35	02/28/16 10:57	
Propylene	ug/m3	ND	0.35	0.14	02/28/16 10:57	
Styrene	ug/m3	ND	0.87	0.19	02/28/16 10:57	
Tetrachloroethene	ug/m3	ND	0.69	0.28	02/28/16 10:57	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	02/28/16 10:57	
Toluene	ug/m3	ND	0.77	0.15	02/28/16 10:57	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	02/28/16 10:57	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	0.26	02/28/16 10:57	
Trichloroethene	ug/m3	ND	0.55	0.28	02/28/16 10:57	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	02/28/16 10:57	
Vinyl acetate	ug/m3	ND	0.72	0.33	02/28/16 10:57	
Vinyl chloride	ug/m3	ND	0.26	0.20	02/28/16 10:57	

LABORATORY CONTROL SAMPLE: 2200167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.5	104	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	72.9	104	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	58.0	105	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.6	97	66-131	
1,1-Dichloroethane	ug/m3	41.2	42.1	102	62-139	
1,1-Dichloroethene	ug/m3	40.3	42.5	105	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.5	65.1	86	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	53.0	106	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.5	106	63-150	
1,2-Dichlorobenzene	ug/m3	61.2	65.6	107	57-141	
1,2-Dichloroethane	ug/m3	41.2	44.2	107	61-144	
1,2-Dichloropropane	ug/m3	47	50.1	107	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.5	103	54-147	
1,3-Butadiene	ug/m3	22.5	23.6	105	61-140	
1,3-Dichlorobenzene	ug/m3	61.2	70.8	116	51-150	
1,4-Dichlorobenzene	ug/m3	61.2	67.2	110	57-143	
2-Butanone (MEK)	ug/m3	150	156	104	66-144	
2-Hexanone	ug/m3	208	201	97	63-147	
2-Propanol	ug/m3	125	124	99	54-146	
4-Ethyltoluene	ug/m3	50	55.9	112	56-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

LABORATORY CONTROL SAMPLE: 2200167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	208	200	96	58-150	
Acetone	ug/m3	121	99.0	82	46-140	
Benzene	ug/m3	32.5	34.5	106	62-141	
Benzyl chloride	ug/m3	52.5	48.2	92	66-138	
Bromodichloromethane	ug/m3	68.2	74.7	110	58-149	
Bromoform	ug/m3	105	126	120	61-150	
Bromomethane	ug/m3	39.5	40.5	103	58-136	
Carbon disulfide	ug/m3	31.7	30.9	98	59-135	
Carbon tetrachloride	ug/m3	64	70.8	111	60-149	
Chlorobenzene	ug/m3	46.8	47.7	102	60-150	
Chloroethane	ug/m3	26.8	28.1	105	61-136	
Chloroform	ug/m3	49.7	49.9	100	65-138	
Chloromethane	ug/m3	21	22.6	108	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	40.7	101	65-139	
cis-1,3-Dichloropropene	ug/m3	46.2	51.8	112	61-149	
Cyclohexane	ug/m3	35	37.0	106	64-134	
Dibromochloromethane	ug/m3	86.6	92.3	106	59-150	
Dichlorodifluoromethane	ug/m3	50.3	51.9	103	63-134	
Dichlorotetrafluoroethane	ug/m3	71.1	75.5	106	62-134	
Ethanol	ug/m3	95.8	113	118	50-144	
Ethyl acetate	ug/m3	36.6	38.0	104	55-146	
Ethylbenzene	ug/m3	44.2	45.6	103	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	92.4	85	42-150	
m&p-Xylene	ug/m3	88.3	88.8	101	59-146	
Methyl-tert-butyl ether	ug/m3	183	180	98	64-135	
Methylene Chloride	ug/m3	177	172	98	64-128	
n-Heptane	ug/m3	41.7	41.6	100	64-140	
n-Hexane	ug/m3	35.8	29.0	81	50-138	
Naphthalene	ug/m3	53.3	49.3	92	46-146	
o-Xylene	ug/m3	44.2	44.7	101	54-149	
Propylene	ug/m3	17.5	18.3	104	58-135	
Styrene	ug/m3	43.3	48.1	111	54-150	
Tetrachloroethene	ug/m3	69	69.1	100	60-142	
Tetrahydrofuran	ug/m3	30	30.7	102	56-143	
Toluene	ug/m3	38.3	38.3	100	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	41.2	102	67-137	
trans-1,3-Dichloropropene	ug/m3	46.2	53.2	115	59-145	
Trichloroethene	ug/m3	54.6	56.8	104	60-144	
Trichlorofluoromethane	ug/m3	57.1	58.1	102	59-134	
Vinyl acetate	ug/m3	35.8	41.0	114	55-143	
Vinyl chloride	ug/m3	26	26.9	104	63-135	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

SAMPLE DUPLICATE: 2200489

Parameter	Units	60213473001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	1.8	1.7	5	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	0.70	0.65	6	25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	7.1	7.1	0	25	
2-Hexanone	ug/m3	ND	1.1J		25	
2-Propanol	ug/m3	207	208	0	25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	.95J		25	
Acetone	ug/m3	22.0	27.9	23	25	
Benzene	ug/m3	0.71	0.74	4	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	4.2	4.2	2	25	
Chloromethane	ug/m3	1.2	1.2	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	.78J		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	.82J		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.5	2.4	3	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	229	232	1	25	
Ethyl acetate	ug/m3	1.4	ND		25	
Ethylbenzene	ug/m3	ND	.76J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	1.9J		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	22.4	23.3	4	25	
n-Heptane	ug/m3	ND	.73J		25	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

SAMPLE DUPLICATE: 2200489

Parameter	Units	60213473001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.0	ND		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	.8J		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	1.8	1.9	6	25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	1.1	1.1	2	25	
Toluene	ug/m3	7.3	7.4	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	8.2	7.9	4	25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	.81J		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10339307001

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10339307002

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10339307003

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

[2] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10339307004

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10339307005

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plume
Pace Project No.: 10339307

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10339307001	**R-SSV-1**	TO-15	AIR/25332		
10339307002	**R-SSV-2**	TO-15	AIR/25332		
10339307003	**R-SSV-3**	TO-15	AIR/25332		
10339307004	**R-SSV-4**	TO-15	AIR/25332		
10339307005	**R-SSV-5**	TO-15	AIR/25332		
10339307006	**R-SSV-1 Can Cert**	TO-15	AIR/25337		
10339307007	**R-SSV-2 Can Cert**	TO-15	AIR/25337		
10339307008	**R-SSV-3 Can Cert**	TO-15	AIR/25337		
10339307009	**R-SSV-4 Can Cert**	TO-15	AIR/25337		
10339307010	**R-SSV-5 Can Cert**	TO-15	AIR/25337		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10339307

23992

Page: 1 of 1

Section A Required Client Information:
Company: AECOM
Address: 800 LASALLE SUITE 500 MPLS, MN 55204
Email To: TONY.CORYELL@AECOM.COM
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: NORMAL

Section B Required Project Information:
Report To: TONY CORYELL
Copy To:
Purchase Order No.:
Project Name: SLP Solvent Plume
Project Number: 60482513

Section C Invoice Information:
Attention: TONY CORYELL
Company Name: AECOM
Address: 800 LASALLE
Pace Quote Reference:
Pace Project Manager/Sales Rep: CAROL DAVY
Pace Profile #:

Program: UST [X] Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other____

Location of Sampling by State: MN

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other___

Method:

ITEM #	Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	R-SSV-1			2/19/16	1330	2/19/16	1425	-27	-1	0305								X			001 006
2	R-SSV-2				1330		1413	-28	-2	2090								X			002 007
3	R-SSV-3				1331		1419	-28	-1	1690								X			003 008
4	R-SSV-4				1330		1417	-30	-3	0624								X			004 009
5	R-SSV-5				1330		1415	-29	-2	0006								X			005 010
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
MELISSA MEEKINSEN / AECOM	2/22/16	1112	[signature] / [signature]	2-22-16	1112

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: BEN KLAUS
SIGNATURE of SAMPLER: BK
DATE Signed (MM / DD / YY): 2/22/16

ORIGINAL

Pace Analytical	Document Name: **Air Sample Condition Upon Receipt**	Document Revised: 29June2015 Page 1 of 1
	Document No.: **F-MN-A-106-rev.10**	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10339307

10339307

Courier: ☐ Fed Ex ☐ UPS ☐ Speedee ☑ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2/22/16

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
R-SSV-1	0304	0723			
R-SSV-2	2090	0938			
R-SSV-3	1690	0777			
R-SSV-4	0624	0920			
R-SSV-5	0006	0840			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: CMD **Date:** 2-22-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05928.D
Report Date: 01-Mar-2016 09:16

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10339307001
Operator : MJL
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 28-FEB-2016 20:54

Client SDG: 022816.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.740	0.375	J
2.		Unknown	6.368	0.811	J
3.	541-05-9	Cyclotrisiloxane, hexamethy	6.593	22.0	NJ
4.	127-18-4	Tetrachloroethylene	6.733	2.02	NJ
5.		Unknown	7.538	0.449	J
6.	73105-67-6	1-Iodo-2-methylundecane	10.074	0.451	NJ
7.		Unknown	11.336	0.289	J
8.		Unknown	11.586	0.0799	J
9.		Unknown	11.836	0.174	J
10.		Unknown	12.354	0.0585	J

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05928.D
Report Date: 01-Mar-2016 09:16

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\022816.b\05928.D
Lab Smp Id: 10339307001
Inj Date : 28-FEB-2016 20:54
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info : 25332
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\022816.b\TO15_057-16.m
Meth Date : 01-Mar-2016 09:09 mlytle Quant Type: ISTD
Cal Date : 26-FEB-2016 13:43 Cal File: 05709.D
Als bottle: 28
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

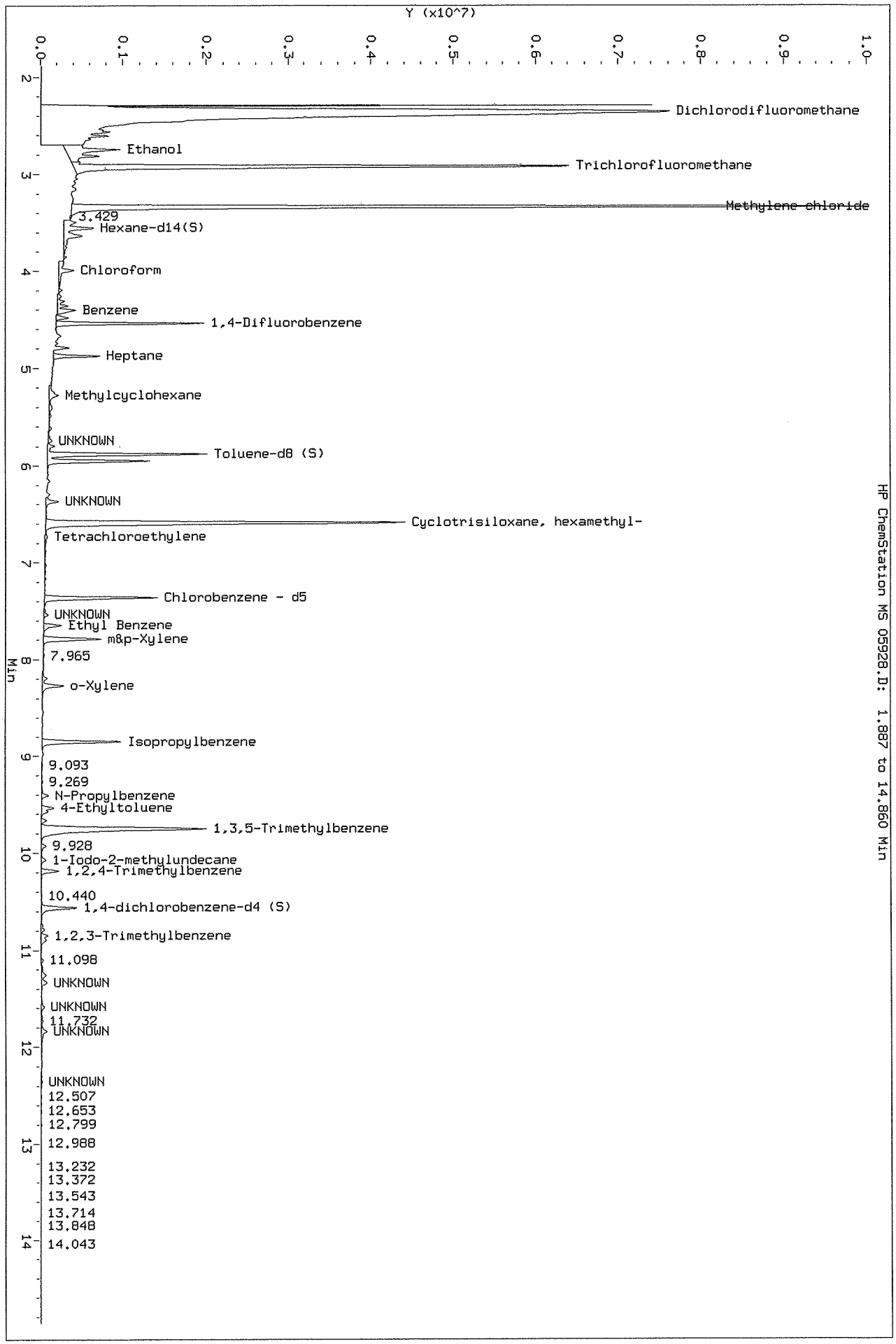
COMPOUND	RT	AREA	AMOUNT
$ 54 Toluene-d8 (S)	5.880	5267316	9.450
* 61 Chlorobenzene - d5	7.361	2341750	10.000
63 Ethyl Benzene	7.648	440579	0.965
74 1,2,4-Trimethylbenzene	10.184	431542	1.128
81 1,2,3-Trimethylbenzene	10.787	463091	0.233

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
5.740	155869	0.27963548	0.375	0		0	54
Unknown					CAS #:		
6.368	337364	0.60524368	0.811	0		0	54
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.593	9160307	16.4339265	22.0	91	NBS75K.l	70586	54

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05928.D
Report Date: 01-Mar-2016 09:16

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Tetrachloroethylene					CAS #: 127-18-4		
6.733	352389	1.50480881	2.02	98	NBS75K.l	67759	61
Unknown					CAS #:		
7.538	152940	0.33497471	0.449	0		0	63
1-Iodo-2-methylundecane					CAS #: 73105-67-6		
10.074	128850	0.33668630	0.451	72	NBS75K.l	41997	74
Unknown					CAS #:		
11.336	428857	0.21542733	0.289	0		0	81
Unknown					CAS #:		
11.586	118701	0.05962667	0.0799	0		0	81
Unknown					CAS #:		
11.836	258893	0.13004951	0.174	0		0	81
Unknown					CAS #:		
12.354	86944	0.04367458	0.0585	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05928.D
Injection Date: 28-FEB-2016 20:54
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 05928.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05929.D
Report Date: 01-Mar-2016 09:16

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10339307002
Operator : MJL
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 28-FEB-2016 21:20

Client SDG: 022816.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.271	0.0161	J
2.		Unknown	2.435	0.511	J
3.		Unknown	6.380	2.42	J
4.	541-05-9	Cyclotrisiloxane, hexamethy	6.599	9.90	NJ
5.		Unknown	6.752	13.7	J
6.	124-18-5	Decane	10.068	0.405	NJ
7.		Unknown	11.336	0.190	J
8.		Unknown	11.586	0.0601	J
9.		Unknown	11.836	0.128	J
10.		Unknown	12.354	0.249	J

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05929.D
Report Date: 01-Mar-2016 09:16

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\022816.b\05929.D
Lab Smp Id: 10339307002
Inj Date : 28-FEB-2016 21:20
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info : 25332
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\022816.b\TO15_057-16.m
Meth Date : 01-Mar-2016 09:09 mlytle Quant Type: ISTD
Cal Date : 26-FEB-2016 13:43 Cal File: 05709.D
Als bottle: 29
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

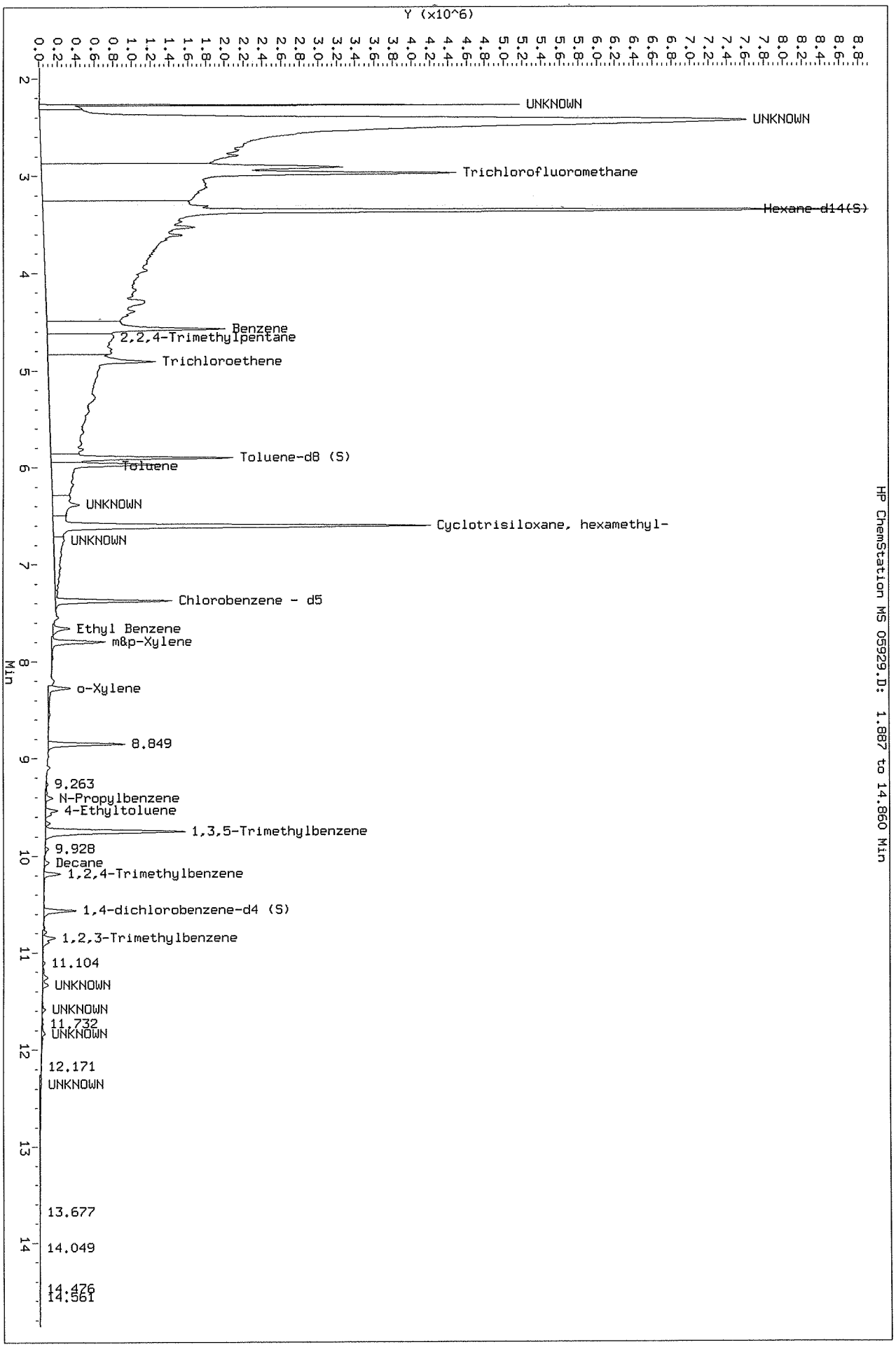
COMPOUND	RT	AREA	AMOUNT
14 Trichlorofluoromethane	2.856	49272548	0.179
55 Toluene	5.971	6390145	4.305
* 61 Chlorobenzene - d5	7.373	2388768	10.000
74 1,2,4-Trimethylbenzene	10.184	465382	0.986
81 1,2,3-Trimethylbenzene	10.787	558985	0.203

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.271	3067991	0.01116547	0.0161	0		0	14
Unknown				CAS #:			
2.435	97594778	0.35518087	0.511	0		0	14
Unknown				CAS #:			
6.380	2492968	1.67937186	2.42	0		0	55

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05929.D
Report Date: 01-Mar-2016 09:16

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.599	10210876	6.87849076	9.90	91	NBS75K.l	70586	55
Unknown					CAS #:		
6.752	2270261	9.50389775	13.7	0		0	61
Decane					CAS #: 124-18-5		
10.068	132671	0.28112512	0.405	78	NBS75K.l	66205	74
Unknown					CAS #:		
11.336	363983	0.13207118	0.190	0		0	81
Unknown					CAS #:		
11.586	114974	0.04171815	0.0601	0		0	81
Unknown					CAS #:		
11.836	244414	0.08868578	0.128	0		0	81
Unknown					CAS #:		
12.354	476253	0.17280856	0.249	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05929.D
Injection Date: 28-FEB-2016 21:20
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 05929.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05930.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10339307003
Operator : MJL
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 28-FEB-2016 21:47

Client SDG: 022816.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066-40-6	Silanol, trimethyl-	3.344	23.4	NJ
2.	Unknown	8.977	0.288	J
3. 622-96-8	Benzene, 1-ethyl-4-methyl-	9.928	0.00961	NJ
4. 589-43-5	Hexane, 2,4-dimethyl-	10.068	0.274	NJ
5.	Unknown	11.336	0.182	J
6.	Unknown	11.580	0.0415	J
7.	Unknown	11.830	0.415	J
8.	Unknown	12.982	0.0248	J
9.	Unknown	13.287	0.0285	J
10.	Unknown	13.519	0.0308	J

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05930.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\022816.b\05930.D
Lab Smp Id: 10339307003
Inj Date : 28-FEB-2016 21:47
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info : 25332
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\022816.b\TO15_057-16.m
Meth Date : 01-Mar-2016 09:09 mlytle Quant Type: ISTD
Cal Date : 26-FEB-2016 13:43 Cal File: 05709.D
Als bottle: 30
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

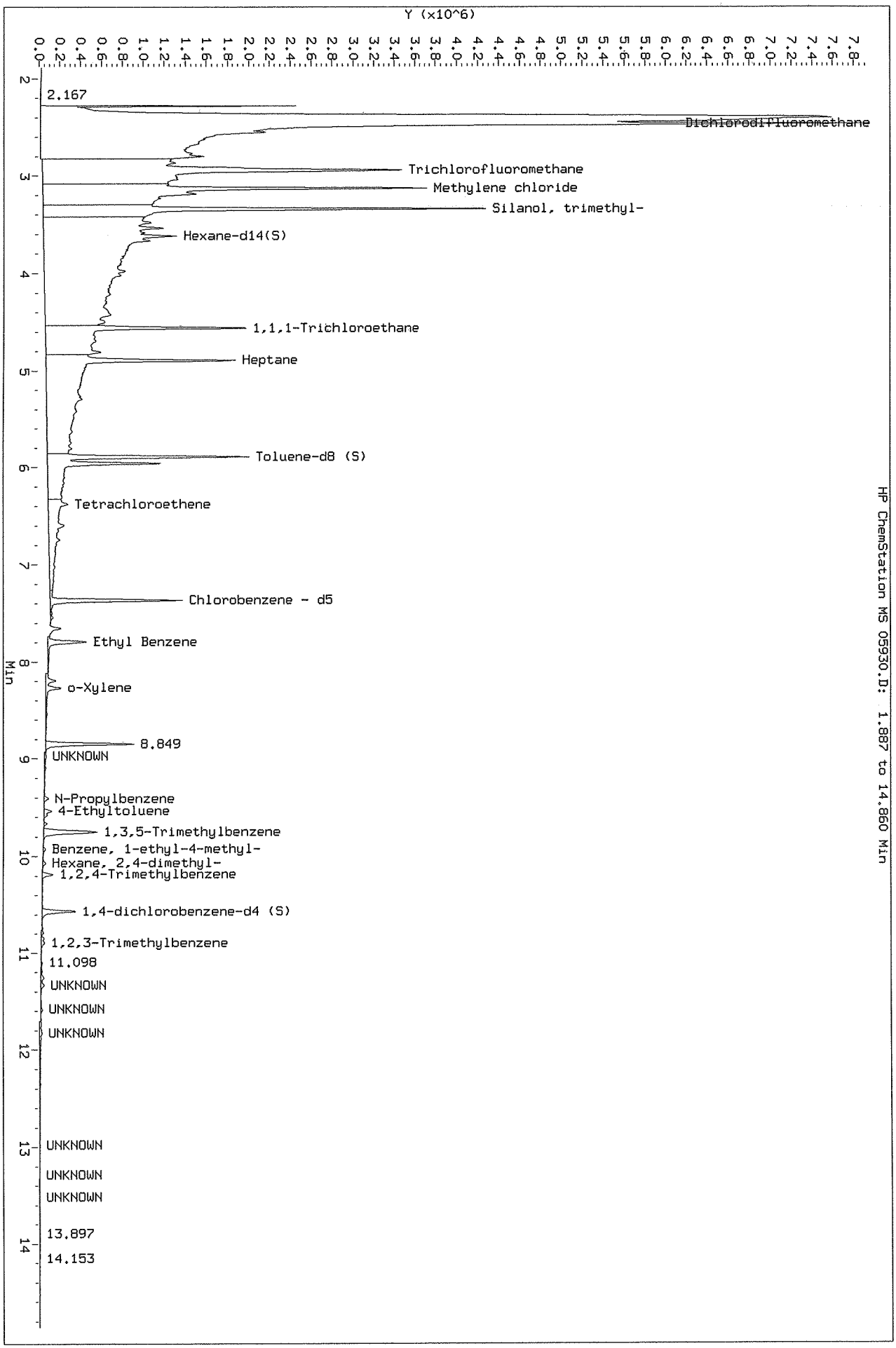
COMPOUND	RT	AREA	AMOUNT
21 Methylene chloride	3.130	18874440	24.583
70 N-Propylbenzene	9.404	117723	0.121
72 1,3,5-Trimethylbenzene	9.666	1203593	0.162
74 1,2,4-Trimethylbenzene	10.184	230852	0.587
81 1,2,3-Trimethylbenzene	10.794	198570	0.121

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Silanol, trimethyl-					CAS #: 1066-40-6		
3.344	12944161	16.8591816	23.4	90	NBS75K.1	62980	21
Unknown					CAS #:		
8.977	201761	0.20736248	0.288	0		0	70
Benzene, 1-ethyl-4-methyl-					CAS #: 622-96-8		
9.928	51392	0.00691512	0.00961	91	NBS75K.1	3770	72

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05930.D
Report Date: 01-Mar-2016 09:17

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Hexane, 2,4-dimethyl-					CAS #: 589-43-5		
10.068	77624	0.19721376	0.274	72	NBS75K.l	64212	74
Unknown					CAS #:		
11.336	214822	0.13073277	0.182	0		0	81
Unknown					CAS #:		
11.580	49062	0.02985720	0.0415	0		0	81
Unknown					CAS #:		
11.830	490338	0.29840171	0.415	0		0	81
Unknown					CAS #:		
12.982	29385	0.01788267	0.0248	0		0	81
Unknown					CAS #:		
13.287	33707	0.02051284	0.0285	0		0	81
Unknown					CAS #:		
13.519	36473	0.02219603	0.0308	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05930.D
Injection Date: 28-FEB-2016 21:47
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 05930.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05931.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10339307004
Operator : MJL
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 28-FEB-2016 22:13

Client SDG: 022816.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.570	33.4	J
2.	565-75-3	Pentane, 2,3,4-trimethyl-	5.612	0.131	NJ
3.		Unknown	5.734	0.763	J
4.	109-07-9	Piperazine, 2-methyl-	6.368	1.03	NJ
5.	541-05-9	Cyclotrisiloxane, hexamethy	6.593	42.2	NJ
6.		Unknown	7.020	0.304	J
7.	111-65-9	Octane	7.538	0.365	NJ
8.		Unknown	8.026	0.425	J
9.	620-14-4	Benzene, 1-ethyl-3-methyl-	9.922	0.00771	NJ
10.	62338-57-2	1,4-Cyclohexadiene, 3-ethen	11.830	0.0645	NJ

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05931.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\022816.b\05931.D
Lab Smp Id: 10339307004
Inj Date : 28-FEB-2016 22:13
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info : 25332
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\022816.b\TO15_057-16.m
Meth Date : 01-Mar-2016 09:09 mlytle Quant Type: ISTD
Cal Date : 26-FEB-2016 13:43 Cal File: 05709.D
Als bottle: 31
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

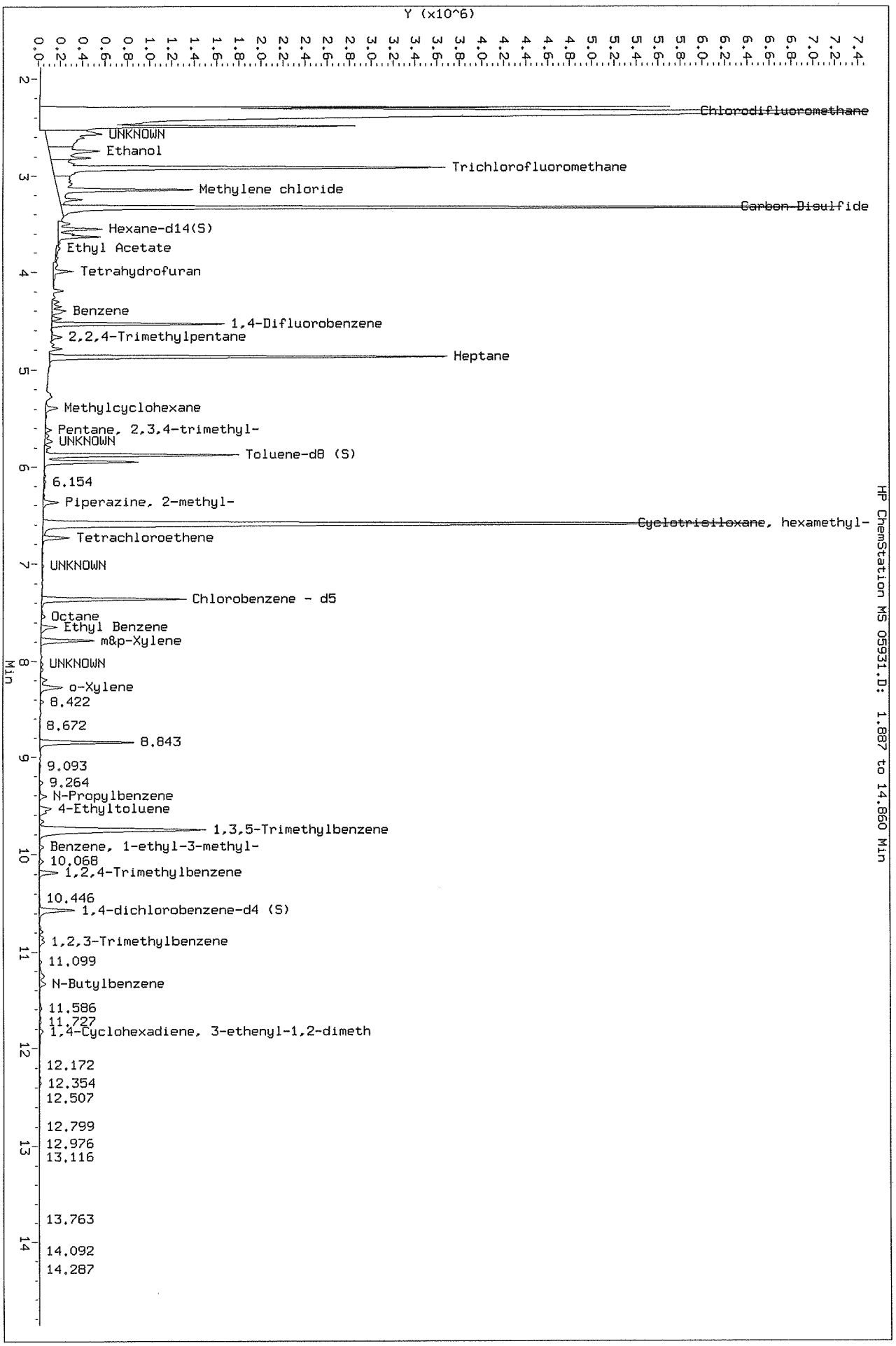
COMPOUND	RT	AREA	AMOUNT
10 Ethanol	2.740	2171123	15.358
50 Methylcyclohexane	5.270	278748	0.210
$ 54 Toluene-d8 (S)	5.874	4306859	9.534
60 Tetrachloroethene	6.734	454351	1.001
63 Ethyl Benzene	7.648	284412	0.690
64 m&p-Xylene	7.788	927193	2.808
72 1,3,5-Trimethylbenzene	9.666	3870354	0.214
83 N-Butylbenzene	11.342	355472	0.103

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.570	3396890	24.0280827	33.4	0		0	10

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05931.D
Report Date: 01-Mar-2016 09:17

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Pentane, 2,3,4-trimethyl-					CAS #: 565-75-3		
5.612	125503	0.09451646	0.131	78	NBS75K.l	3100	50
Unknown					CAS #:		
5.734	247872	0.54870494	0.763	0		0	54
Piperazine, 2-methyl-					CAS #: 109-07-9		
6.368	336381	0.74078908	1.03	74	NBS75K.l	1489	60
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.593	13789801	30.3683868	42.2	91	NBS75K.l	70586	60
Unknown					CAS #:		
7.020	99397	0.21889476	0.304	0		0	60
Octane					CAS #: 111-65-9		
7.538	108308	0.26257321	0.365	83	NBS75K.l	3084	63
Unknown					CAS #:		
8.026	100993	0.30588757	0.425	0		0	64
Benzene, 1-ethyl-3-methyl-					CAS #: 620-14-4		
9.922	100301	0.00554490	0.00771	76	NBS75K.l	64565	72
1,4-Cyclohexadiene, 3-ethenyl-1,2-dimeth					CAS #: 62338-57-2		
11.830	159610	0.04640974	0.0645	86	NBS75K.l	6196	83

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05931.D
Injection Date: 28-FEB-2016 22:13
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 05931.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05932.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10339307005
Operator : MJL
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 28-FEB-2016 22:39

Client SDG: 022816.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	6.374	0.125	J
2.		Unknown	8.971	0.0967	J
3.	611-14-3	Benzene, 1-ethyl-2-methyl-	9.922	0.0166	NJ
4.		Unknown	10.068	0.779	J
5.	13475-82-6	Heptane, 2,2,4,6,6-pentamet	10.434	1.00	NJ
6.		Unknown	10.891	1.54	J
7.	3522-94-9	Hexane, 2,2,5-trimethyl-	11.257	1.47	NJ
8.		Unknown	11.586	0.183	J
9.		Unknown	11.830	0.585	J
10.		Unknown	12.665	0.102	J

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05932.D
Report Date: 01-Mar-2016 09:17

Pace Analytical Services, Inc.

TO14/TO15 Analysis

Data file : \\192.168.10.12\chem\10air7.i\022816.b\05932.D
Lab Smp Id: 10339307005
Inj Date : 28-FEB-2016 22:39
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info : 25332
Comment : Volatile Organic Compounds in Air
Method : \\192.168.10.12\chem\10air7.i\022816.b\TO15_057-16.m
Meth Date : 01-Mar-2016 09:09 mlytle Quant Type: ISTD
Cal Date : 26-FEB-2016 13:43 Cal File: 05709.D
Als bottle: 32
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

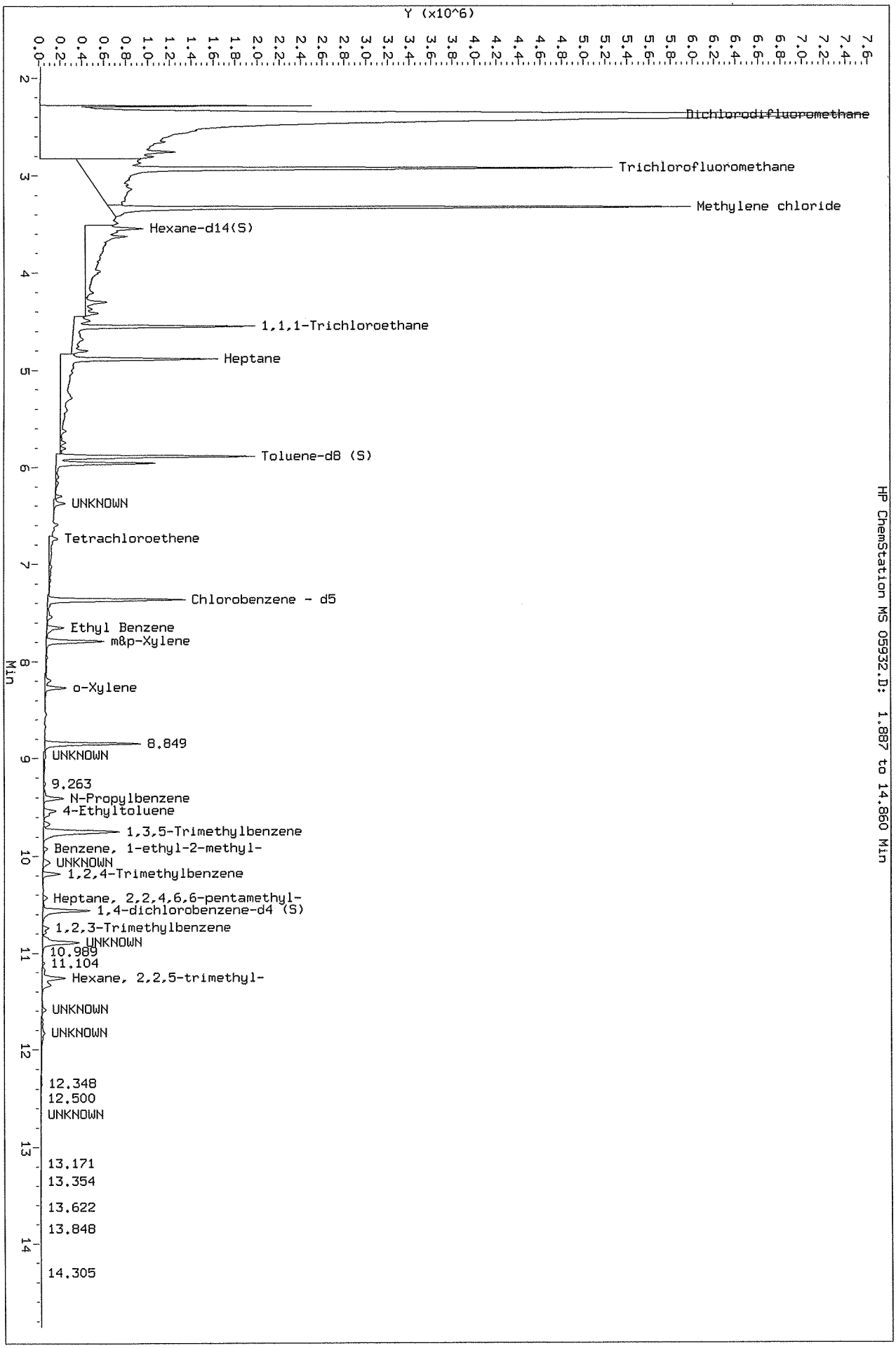
COMPOUND	RT	AREA	AMOUNT
60 Tetrachloroethene	6.739	677858	0.226
70 N-Propylbenzene	9.404	405137	0.186
72 1,3,5-Trimethylbenzene	9.666	1838584	0.220
74 1,2,4-Trimethylbenzene	10.184	341184	0.908
$ 77 1,4-dichlorobenzene-d4	10.562	990290	7.065
81 1,2,3-Trimethylbenzene	10.787	178225	0.215

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
6.374	270797	0.09026880	0.125	0		0	60
Unknown				CAS #:			
8.971	151934	0.06960061	0.0967	0		0	70

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05932.D
Report Date: 01-Mar-2016 09:17

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
9.922	99765	0.01193117	0.0166	90	NBS75K.l	64558	72
Unknown					CAS #:		
10.068	210546	0.56023091	0.779	0		0	74
Heptane, 2,2,4,6,6-pentamethyl-					CAS #: 13475-82-6		
10.434	101340	0.72295581	1.00	78	NBS75K.l	15367	77
Unknown					CAS #:		
10.891	920857	1.11031603	1.54	0		0	81
Hexane, 2,2,5-trimethyl-					CAS #: 3522-94-9		
11.257	878217	1.05890338	1.47	72	NBS75K.l	65126	81
Unknown					CAS #:		
11.586	109161	0.13162044	0.183	0		0	81
Unknown					CAS #:		
11.830	349127	0.42095671	0.585	0		0	81
Unknown					CAS #:		
12.665	60875	0.07339979	0.102	0		0	81

Data File: \\192.168.10.12\chem\10air7.i\022816.b\05932.D
Injection Date: 28-FEB-2016 22:39
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 05932.D: 1.887 to 14.860 Min

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

April 20, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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CERTIFICATIONS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10343713001	**B-SSV-1**	Air	04/01/16 09:51	04/05/16 10:16
10343713002	**B-SSV-2**	Air	04/01/16 09:49	04/05/16 10:16
10343713003	**SSV-29**	Air	04/01/16 15:09	04/05/16 10:16
10343713004	**SSV-30**	Air	04/01/16 14:19	04/05/16 10:16
10343713005	**SSV-31**	Air	04/01/16 14:20	04/05/16 10:16
10343713006	**SSV-32**	Air	04/01/16 15:36	04/05/16 10:16
10343713007	**SSV-33**	Air	04/01/16 15:40	04/05/16 10:16
10343713008	**SSV-34**	Air	04/01/16 14:20	04/05/16 10:16
10343713009	**SSV-35**	Air	04/01/16 14:22	04/05/16 10:16
10343713010	**SSV-36**	Air	04/01/16 15:10	04/05/16 10:16
10343713011	**B-SSV-1 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713012	**B-SSV-2 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713013	**SSV-29 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713014	**SSV-30 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713015	**SSV-31 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713016	**SSV-32 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713017	**SSV-33 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713018	**SSV-34 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713019	**SSV-35 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16
10343713020	**SSV-36 Can Cert**	Air	04/01/16 00:00	04/05/16 10:16

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SAMPLE ANALYTE COUNT

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10343713001	**B-SSV-1**	TO-15	NCK	61
10343713002	**B-SSV-2**	TO-15	NCK	61
10343713003	**SSV-29**	TO-15	NCK	61
10343713004	**SSV-30**	TO-15	NCK	61
10343713005	**SSV-31**	TO-15	NCK	61
10343713006	**SSV-32**	TO-15	NCK	61
10343713007	**SSV-33**	TO-15	NCK	61
10343713008	**SSV-34**	TO-15	NCK	61
10343713009	**SSV-35**	TO-15	NCK	61
10343713010	**SSV-36**	TO-15	NCK	61
10343713011	**B-SSV-1 Can Cert**	TO-15	MJL	61
10343713012	**B-SSV-2 Can Cert**	TO-15	MJL	61
10343713013	**SSV-29 Can Cert**	TO-15	MJL	61
10343713014	**SSV-30 Can Cert**	TO-15	NCK	61
10343713015	**SSV-31 Can Cert**	TO-15	MJL	61
10343713016	**SSV-32 Can Cert**	TO-15	MJL	61
10343713017	**SSV-33 Can Cert**	TO-15	AEJ	61
10343713018	**SSV-34 Can Cert**	TO-15	MLS	61
10343713019	**SSV-35 Can Cert**	TO-15	MJL	61
10343713020	**SSV-36 Can Cert**	TO-15	MJL	61

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713001	**B-SSV-1**					
TO-15	Acetone	217	ug/m3	3.2	04/14/16 17:36	
TO-15	Benzene	4.7	ug/m3	0.44	04/14/16 17:36	
TO-15	Bromomethane	1.3	ug/m3	1.1	04/14/16 17:36	
TO-15	2-Butanone (MEK)	20.9	ug/m3	4.0	04/14/16 17:36	
TO-15	Carbon disulfide	2.6	ug/m3	0.84	04/14/16 17:36	
TO-15	Carbon tetrachloride	1.9	ug/m3	1.7	04/14/16 17:36	
TO-15	Chloroform	1.4	ug/m3	0.66	04/14/16 17:36	
TO-15	Chloromethane	3.0	ug/m3	0.56	04/14/16 17:36	
TO-15	Cyclohexane	6.2	ug/m3	0.94	04/14/16 17:36	
TO-15	1,3-Dichlorobenzene	152	ug/m3	4.1	04/14/16 17:36	
TO-15	Dichlorodifluoromethane	1.5	ug/m3	1.4	04/14/16 17:36	
TO-15	1,1-Dichloroethene	9.5	ug/m3	1.1	04/14/16 17:36	
TO-15	cis-1,2-Dichloroethene	122	ug/m3	1.1	04/14/16 17:36	
TO-15	Ethyl acetate	3.0	ug/m3	0.98	04/14/16 17:36	
TO-15	Ethylbenzene	6.1	ug/m3	1.2	04/14/16 17:36	
TO-15	4-Ethyltoluene	3.2	ug/m3	1.3	04/14/16 17:36	
TO-15	n-Heptane	7.4	ug/m3	1.1	04/14/16 17:36	
TO-15	n-Hexane	75.9	ug/m3	0.96	04/14/16 17:36	
TO-15	Methylene Chloride	423	ug/m3	4.7	04/14/16 17:36	
TO-15	Naphthalene	6.1	ug/m3	3.6	04/14/16 17:36	
TO-15	2-Propanol	845000	ug/m3	4290	04/18/16 13:14	C0,E,IU
TO-15	Styrene	3.1	ug/m3	2.9	04/14/16 17:36	
TO-15	Tetrachloroethene	2020	ug/m3	0.92	04/14/16 17:36	E
TO-15	Toluene	59.7	ug/m3	1.0	04/14/16 17:36	
TO-15	Trichloroethene	131	ug/m3	0.74	04/14/16 17:36	
TO-15	Trichlorofluoromethane	2.3	ug/m3	1.5	04/14/16 17:36	
TO-15	1,2,4-Trimethylbenzene	8.4	ug/m3	1.3	04/14/16 17:36	
TO-15	1,3,5-Trimethylbenzene	2.0	ug/m3	1.3	04/14/16 17:36	
TO-15	m&p-Xylene	25.7	ug/m3	2.4	04/14/16 17:36	
TO-15	o-Xylene	8.9	ug/m3	3.0	04/14/16 17:36	
10343713002	**B-SSV-2**					
TO-15	Acetone	943	ug/m3	3.4	04/14/16 18:03	E
TO-15	Benzene	8.5	ug/m3	0.45	04/14/16 18:03	
TO-15	2-Butanone (MEK)	162	ug/m3	4.2	04/14/16 18:03	
TO-15	Carbon disulfide	1.3	ug/m3	0.88	04/14/16 18:03	
TO-15	Carbon tetrachloride	3.6	ug/m3	1.8	04/14/16 18:03	
TO-15	Chloroform	4.7	ug/m3	0.69	04/14/16 18:03	
TO-15	Chloromethane	3.7	ug/m3	0.58	04/14/16 18:03	
TO-15	1,3-Dichlorobenzene	143	ug/m3	4.2	04/14/16 18:03	
TO-15	Dichlorodifluoromethane	4.4	ug/m3	1.4	04/14/16 18:03	
TO-15	1,1-Dichloroethene	14.4	ug/m3	1.1	04/14/16 18:03	
TO-15	cis-1,2-Dichloroethene	178	ug/m3	1.1	04/14/16 18:03	
TO-15	cis-1,3-Dichloropropene	6.0	ug/m3	1.3	04/14/16 18:03	
TO-15	Ethylbenzene	25.4	ug/m3	1.2	04/14/16 18:03	
TO-15	4-Ethyltoluene	9.3	ug/m3	1.4	04/14/16 18:03	
TO-15	n-Heptane	46.9	ug/m3	1.2	04/14/16 18:03	
TO-15	n-Hexane	27.5	ug/m3	1.0	04/14/16 18:03	

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713002	**B-SSV-2**					
TO-15	Methylene Chloride	47.2	ug/m3	4.9	04/14/16 18:03	
TO-15	4-Methyl-2-pentanone (MIBK)	28.7	ug/m3	5.8	04/14/16 18:03	
TO-15	Methyl-tert-butyl ether	79.1	ug/m3	5.1	04/14/16 18:03	
TO-15	Naphthalene	5.7	ug/m3	3.7	04/14/16 18:03	
TO-15	2-Propanol	897000	ug/m3	4450	04/18/16 13:42	C0,E,IU
TO-15	Styrene	8.0	ug/m3	3.0	04/14/16 18:03	
TO-15	Tetrachloroethene	358	ug/m3	153	04/17/16 18:08	
TO-15	Toluene	543	ug/m3	171	04/17/16 18:08	
TO-15	Trichloroethene	154	ug/m3	122	04/17/16 18:08	
TO-15	Trichlorofluoromethane	3.9	ug/m3	1.6	04/14/16 18:03	
TO-15	1,2,4-Trimethylbenzene	16.3	ug/m3	1.4	04/14/16 18:03	
TO-15	1,3,5-Trimethylbenzene	5.4	ug/m3	1.4	04/14/16 18:03	
TO-15	Vinyl acetate	15.9	ug/m3	1.0	04/14/16 18:03	
TO-15	m&p-Xylene	106	ug/m3	2.5	04/14/16 18:03	
TO-15	o-Xylene	29.5	ug/m3	3.1	04/14/16 18:03	
10343713003	**SSV-29**					
TO-15	Acetone	980	ug/m3	3.5	04/14/16 18:30	E
TO-15	Benzene	9.2	ug/m3	0.47	04/14/16 18:30	
TO-15	Bromomethane	1.4	ug/m3	1.1	04/14/16 18:30	
TO-15	2-Butanone (MEK)	143	ug/m3	4.3	04/14/16 18:30	
TO-15	Chloroform	3.0	ug/m3	0.71	04/14/16 18:30	
TO-15	Chloromethane	6.6	ug/m3	0.60	04/14/16 18:30	
TO-15	1,3-Dichlorobenzene	277	ug/m3	4.4	04/14/16 18:30	
TO-15	Dichlorodifluoromethane	5.7	ug/m3	1.5	04/14/16 18:30	
TO-15	1,2-Dichloroethane	8.5	ug/m3	0.59	04/14/16 18:30	
TO-15	1,1-Dichloroethene	6.6	ug/m3	1.2	04/14/16 18:30	
TO-15	cis-1,2-Dichloroethene	345	ug/m3	187	04/17/16 17:45	
TO-15	trans-1,2-Dichloroethene	1.2	ug/m3	1.2	04/14/16 18:30	
TO-15	Ethylbenzene	31.3	ug/m3	1.3	04/14/16 18:30	
TO-15	4-Ethyltoluene	13.4	ug/m3	1.4	04/14/16 18:30	
TO-15	n-Heptane	50.2	ug/m3	1.2	04/14/16 18:30	
TO-15	Methylene Chloride	41.9	ug/m3	5.1	04/14/16 18:30	
TO-15	4-Methyl-2-pentanone (MIBK)	20.1	ug/m3	6.0	04/14/16 18:30	
TO-15	Methyl-tert-butyl ether	69.1	ug/m3	5.3	04/14/16 18:30	
TO-15	Naphthalene	6.3	ug/m3	3.8	04/14/16 18:30	
TO-15	2-Propanol	200000	ug/m3	576	04/17/16 17:45	E
TO-15	Styrene	7.7	ug/m3	3.1	04/14/16 18:30	
TO-15	Tetrachloroethene	7770	ug/m3	159	04/17/16 17:45	
TO-15	Toluene	180	ug/m3	177	04/17/16 17:45	
TO-15	Trichloroethene	406	ug/m3	127	04/17/16 17:45	
TO-15	Trichlorofluoromethane	5.4	ug/m3	1.6	04/14/16 18:30	
TO-15	1,2,4-Trimethylbenzene	27.3	ug/m3	1.4	04/14/16 18:30	
TO-15	1,3,5-Trimethylbenzene	8.3	ug/m3	1.4	04/14/16 18:30	
TO-15	m&p-Xylene	117	ug/m3	2.5	04/14/16 18:30	
TO-15	o-Xylene	34.4	ug/m3	3.2	04/14/16 18:30	

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713004	**SSV-30**					
TO-15	Acetone	310	ug/m3	3.4	04/14/16 18:59	
TO-15	Benzene	4.2	ug/m3	0.45	04/14/16 18:59	
TO-15	2-Butanone (MEK)	25.5	ug/m3	4.2	04/14/16 18:59	
TO-15	Carbon tetrachloride	1.8	ug/m3	1.8	04/14/16 18:59	
TO-15	Chloromethane	1.3	ug/m3	0.58	04/14/16 18:59	
TO-15	Cyclohexane	5.7	ug/m3	0.97	04/14/16 18:59	
TO-15	1,3-Dichlorobenzene	149	ug/m3	4.2	04/14/16 18:59	
TO-15	Dichlorodifluoromethane	1.7	ug/m3	1.4	04/14/16 18:59	
TO-15	1,2-Dichloroethane	8.1	ug/m3	0.57	04/14/16 18:59	
TO-15	Ethylbenzene	10.5	ug/m3	1.2	04/14/16 18:59	
TO-15	4-Ethyltoluene	3.7	ug/m3	1.4	04/14/16 18:59	
TO-15	n-Heptane	10.4	ug/m3	1.2	04/14/16 18:59	
TO-15	n-Hexane	16.2	ug/m3	1.0	04/14/16 18:59	
TO-15	Methylene Chloride	291	ug/m3	4.9	04/14/16 18:59	
TO-15	Methyl-tert-butyl ether	10.3	ug/m3	5.1	04/14/16 18:59	
TO-15	Naphthalene	6.4	ug/m3	3.7	04/14/16 18:59	
TO-15	2-Propanol	535000	ug/m3	2220	04/18/16 14:10	C0,E,IU
TO-15	Styrene	4.7	ug/m3	3.0	04/14/16 18:59	
TO-15	Tetrachloroethene	51.1	ug/m3	0.96	04/14/16 18:59	
TO-15	Toluene	160	ug/m3	1.1	04/14/16 18:59	
TO-15	1,1,1-Trichloroethane	18.7	ug/m3	1.5	04/14/16 18:59	
TO-15	Trichloroethene	5.6	ug/m3	0.76	04/14/16 18:59	
TO-15	Trichlorofluoromethane	2.4	ug/m3	1.6	04/14/16 18:59	
TO-15	1,2,4-Trimethylbenzene	8.2	ug/m3	1.4	04/14/16 18:59	
TO-15	1,3,5-Trimethylbenzene	3.4	ug/m3	1.4	04/14/16 18:59	
TO-15	m&p-Xylene	43.1	ug/m3	2.5	04/14/16 18:59	
TO-15	o-Xylene	13.9	ug/m3	3.1	04/14/16 18:59	
10343713005	**SSV-31**					
TO-15	Acetone	356	ug/m3	3.4	04/17/16 15:59	
TO-15	Benzene	8.6	ug/m3	0.45	04/17/16 15:59	
TO-15	2-Butanone (MEK)	107	ug/m3	4.2	04/17/16 15:59	
TO-15	Carbon tetrachloride	3.8	ug/m3	0.89	04/17/16 15:59	
TO-15	Chloroform	2.0	ug/m3	0.69	04/17/16 15:59	
TO-15	Chloromethane	2.3	ug/m3	0.58	04/17/16 15:59	
TO-15	1,3-Dichlorobenzene	83.0	ug/m3	4.2	04/17/16 15:59	
TO-15	1,4-Dichlorobenzene	178	ug/m3	4.2	04/17/16 15:59	
TO-15	Dichlorodifluoromethane	3.4	ug/m3	1.4	04/17/16 15:59	
TO-15	cis-1,2-Dichloroethene	528	ug/m3	360	04/18/16 15:06	C0,IU
TO-15	cis-1,3-Dichloropropene	1.9	ug/m3	1.3	04/17/16 15:59	
TO-15	Ethylbenzene	26.5	ug/m3	1.2	04/17/16 15:59	
TO-15	4-Ethyltoluene	10.0	ug/m3	1.4	04/17/16 15:59	
TO-15	n-Heptane	15.9	ug/m3	1.2	04/17/16 15:59	
TO-15	n-Hexane	14.1	ug/m3	1.0	04/17/16 15:59	
TO-15	Methylene Chloride	20.3	ug/m3	4.9	04/17/16 15:59	
TO-15	Methyl-tert-butyl ether	45.9	ug/m3	5.1	04/17/16 15:59	
TO-15	2-Propanol	472000	ug/m3	1110	04/18/16 15:06	C0,E,IU
TO-15	Styrene	5.1	ug/m3	1.2	04/17/16 15:59	

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713005	**SSV-31**					
TO-15	Tetrachloroethene	3480	ug/m3	306	04/18/16 15:06	C0,IU
TO-15	Toluene	720	ug/m3	342	04/18/16 15:06	C0,IU
TO-15	1,1,1-Trichloroethane	1.7	ug/m3	1.5	04/17/16 15:59	
TO-15	Trichloroethene	181	ug/m3	0.76	04/17/16 15:59	
TO-15	Trichlorofluoromethane	1.7	ug/m3	1.6	04/17/16 15:59	
TO-15	1,2,4-Trimethylbenzene	14.1	ug/m3	1.4	04/17/16 15:59	
TO-15	1,3,5-Trimethylbenzene	5.9	ug/m3	1.4	04/17/16 15:59	
TO-15	m&p-Xylene	105	ug/m3	2.5	04/17/16 15:59	
TO-15	o-Xylene	30.9	ug/m3	1.2	04/17/16 15:59	
10343713006	**SSV-32**					
TO-15	Acetone	1010	ug/m3	3.5	04/14/16 19:54	E
TO-15	Benzene	8.1	ug/m3	0.47	04/14/16 19:54	
TO-15	Bromodichloromethane	3.9	ug/m3	2.0	04/14/16 19:54	
TO-15	2-Butanone (MEK)	181	ug/m3	4.3	04/14/16 19:54	
TO-15	Chloroform	11.9	ug/m3	0.71	04/14/16 19:54	
TO-15	Chloromethane	2.4	ug/m3	0.60	04/14/16 19:54	
TO-15	1,3-Dichlorobenzene	116	ug/m3	4.4	04/14/16 19:54	
TO-15	1,4-Dichlorobenzene	216	ug/m3	4.4	04/14/16 19:54	
TO-15	Dichlorodifluoromethane	6.7	ug/m3	1.5	04/14/16 19:54	
TO-15	1,1-Dichloroethene	130	ug/m3	1.2	04/14/16 19:54	
TO-15	trans-1,2-Dichloroethene	8.7	ug/m3	1.2	04/14/16 19:54	
TO-15	Ethylbenzene	22.8	ug/m3	1.3	04/14/16 19:54	
TO-15	4-Ethyltoluene	7.3	ug/m3	1.4	04/14/16 19:54	
TO-15	2-Hexanone	6.1	ug/m3	6.0	04/14/16 19:54	
TO-15	Methylene Chloride	36.8	ug/m3	5.1	04/14/16 19:54	
TO-15	4-Methyl-2-pentanone (MIBK)	16.4	ug/m3	6.0	04/14/16 19:54	
TO-15	Methyl-tert-butyl ether	94.2	ug/m3	5.3	04/14/16 19:54	
TO-15	Naphthalene	3.9	ug/m3	3.8	04/14/16 19:54	
TO-15	2-Propanol	19500	ug/m3	288	04/17/16 17:22	
TO-15	Styrene	7.3	ug/m3	3.1	04/14/16 19:54	
TO-15	Tetrachloroethene	450	ug/m3	79.4	04/17/16 17:22	
TO-15	Tetrahydrofuran	29.5	ug/m3	0.86	04/14/16 19:54	
TO-15	Toluene	108	ug/m3	88.7	04/17/16 17:22	
TO-15	Trichlorofluoromethane	6.4	ug/m3	1.6	04/14/16 19:54	
TO-15	1,2,4-Trimethylbenzene	5.3	ug/m3	1.4	04/14/16 19:54	
TO-15	1,3,5-Trimethylbenzene	4.8	ug/m3	1.4	04/14/16 19:54	
TO-15	Vinyl acetate	10.7	ug/m3	1.0	04/14/16 19:54	
TO-15	m&p-Xylene	93.0	ug/m3	2.5	04/14/16 19:54	
TO-15	o-Xylene	27.1	ug/m3	3.2	04/14/16 19:54	
10343713007	**SSV-33**					
TO-15	Acetone	147	ug/m3	3.5	04/17/16 16:28	
TO-15	Benzene	3.4	ug/m3	0.47	04/17/16 16:28	
TO-15	Bromodichloromethane	3.2	ug/m3	2.0	04/17/16 16:28	
TO-15	2-Butanone (MEK)	45.2	ug/m3	4.3	04/17/16 16:28	
TO-15	Carbon disulfide	4.8	ug/m3	0.91	04/17/16 16:28	
TO-15	Chloroform	11.4	ug/m3	0.71	04/17/16 16:28	

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713007	**SSV-33**					
TO-15	Cyclohexane	2.8	ug/m3	1.0	04/17/16 16:28	
TO-15	1,3-Dichlorobenzene	185	ug/m3	4.4	04/17/16 16:28	
TO-15	Dichlorodifluoromethane	1.6	ug/m3	1.5	04/17/16 16:28	
TO-15	cis-1,2-Dichloroethene	17.0	ug/m3	1.2	04/17/16 16:28	
TO-15	trans-1,2-Dichloroethene	1.7	ug/m3	1.2	04/17/16 16:28	
TO-15	Ethylbenzene	13.5	ug/m3	1.3	04/17/16 16:28	
TO-15	4-Ethyltoluene	4.3	ug/m3	1.4	04/17/16 16:28	
TO-15	n-Heptane	8.2	ug/m3	1.2	04/17/16 16:28	
TO-15	Methyl-tert-butyl ether	21.4	ug/m3	5.3	04/17/16 16:28	
TO-15	2-Propanol	323000	ug/m3	1150	04/18/16 15:35	C0,E,IU
TO-15	Styrene	5.1	ug/m3	1.3	04/17/16 16:28	
TO-15	Tetrachloroethene	5080	ug/m3	317	04/18/16 15:35	
TO-15	Trichloroethene	26.1	ug/m3	0.79	04/17/16 16:28	
TO-15	1,2,4-Trimethylbenzene	7.1	ug/m3	1.4	04/17/16 16:28	
TO-15	1,3,5-Trimethylbenzene	3.6	ug/m3	1.4	04/17/16 16:28	
TO-15	m&p-Xylene	55.4	ug/m3	2.5	04/17/16 16:28	
TO-15	o-Xylene	16.9	ug/m3	1.3	04/17/16 16:28	
10343713008	**SSV-34**					
TO-15	Acetone	401	ug/m3	3.2	04/14/16 20:51	
TO-15	Benzene	7.9	ug/m3	0.44	04/14/16 20:51	
TO-15	Bromomethane	9.5	ug/m3	1.1	04/14/16 20:51	
TO-15	2-Butanone (MEK)	34.7	ug/m3	4.0	04/14/16 20:51	
TO-15	Carbon disulfide	1.0	ug/m3	0.84	04/14/16 20:51	
TO-15	Carbon tetrachloride	1.9	ug/m3	1.7	04/14/16 20:51	
TO-15	Chloroform	1.9	ug/m3	0.66	04/14/16 20:51	
TO-15	Chloromethane	8.9	ug/m3	0.56	04/14/16 20:51	
TO-15	Cyclohexane	9.3	ug/m3	0.94	04/14/16 20:51	
TO-15	1,3-Dichlorobenzene	84.6	ug/m3	4.1	04/14/16 20:51	
TO-15	1,4-Dichlorobenzene	161	ug/m3	4.1	04/14/16 20:51	
TO-15	Dichlorodifluoromethane	2.2	ug/m3	1.4	04/14/16 20:51	
TO-15	1,2-Dichloroethane	0.72	ug/m3	0.55	04/14/16 20:51	
TO-15	cis-1,2-Dichloroethene	29.0	ug/m3	1.1	04/14/16 20:51	
TO-15	Ethylbenzene	11.6	ug/m3	1.2	04/14/16 20:51	
TO-15	4-Ethyltoluene	4.2	ug/m3	1.3	04/14/16 20:51	
TO-15	n-Heptane	11.5	ug/m3	1.1	04/14/16 20:51	
TO-15	n-Hexane	52.8	ug/m3	0.96	04/14/16 20:51	
TO-15	Methylene Chloride	567	ug/m3	4.7	04/14/16 20:51	
TO-15	Methyl-tert-butyl ether	18.3	ug/m3	4.9	04/14/16 20:51	
TO-15	Naphthalene	6.3	ug/m3	3.6	04/14/16 20:51	
TO-15	2-Propanol	580000	ug/m3	2140	04/18/16 14:39	C0,E,IU
TO-15	Styrene	4.3	ug/m3	2.9	04/14/16 20:51	
TO-15	Tetrachloroethene	232	ug/m3	0.92	04/14/16 20:51	
TO-15	Toluene	435	ug/m3	41.3	04/17/16 19:41	
TO-15	Trichloroethene	31.1	ug/m3	0.74	04/14/16 20:51	
TO-15	Trichlorofluoromethane	4.2	ug/m3	1.5	04/14/16 20:51	
TO-15	1,2,4-Trimethylbenzene	8.7	ug/m3	1.3	04/14/16 20:51	
TO-15	1,3,5-Trimethylbenzene	3.2	ug/m3	1.3	04/14/16 20:51	

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713008	**SSV-34**					
TO-15	m&p-Xylene	47.4	ug/m3	2.4	04/14/16 20:51	
TO-15	o-Xylene	14.3	ug/m3	3.0	04/14/16 20:51	
10343713009	**SSV-35**					
TO-15	Acetone	300	ug/m3	3.4	04/14/16 21:46	
TO-15	Benzene	4.2	ug/m3	0.45	04/14/16 21:46	
TO-15	2-Butanone (MEK)	42.1	ug/m3	4.2	04/14/16 21:46	
TO-15	Carbon disulfide	0.94	ug/m3	0.88	04/14/16 21:46	
TO-15	Chloroform	6.2	ug/m3	0.69	04/14/16 21:46	
TO-15	1,3-Dichlorobenzene	89.9	ug/m3	4.2	04/14/16 21:46	
TO-15	Dichlorodifluoromethane	2.4	ug/m3	1.4	04/14/16 21:46	
TO-15	1,1-Dichloroethene	63.6	ug/m3	1.1	04/14/16 21:46	
TO-15	trans-1,2-Dichloroethene	6.5	ug/m3	1.1	04/14/16 21:46	
TO-15	Ethylbenzene	16.6	ug/m3	1.2	04/14/16 21:46	
TO-15	4-Ethyltoluene	6.9	ug/m3	1.4	04/14/16 21:46	
TO-15	n-Heptane	9.3	ug/m3	1.2	04/14/16 21:46	
TO-15	Methyl-tert-butyl ether	22.0	ug/m3	5.1	04/14/16 21:46	
TO-15	Naphthalene	10.1	ug/m3	3.7	04/14/16 21:46	
TO-15	2-Propanol	949000	ug/m3	2220	04/17/16 19:18	E
TO-15	Styrene	5.5	ug/m3	3.0	04/14/16 21:46	
TO-15	Tetrachloroethene	1500	ug/m3	613	04/17/16 19:18	
TO-15	Trichlorofluoromethane	2.7	ug/m3	1.6	04/14/16 21:46	
TO-15	1,2,4-Trimethylbenzene	11.0	ug/m3	1.4	04/14/16 21:46	
TO-15	1,3,5-Trimethylbenzene	5.9	ug/m3	1.4	04/14/16 21:46	
TO-15	Vinyl acetate	14.1	ug/m3	1.0	04/14/16 21:46	
TO-15	m&p-Xylene	67.3	ug/m3	2.5	04/14/16 21:46	
TO-15	o-Xylene	21.0	ug/m3	3.1	04/14/16 21:46	
10343713010	**SSV-36**					
TO-15	Acetone	216	ug/m3	3.5	04/17/16 16:58	
TO-15	Benzene	3.4	ug/m3	0.47	04/17/16 16:58	
TO-15	2-Butanone (MEK)	45.2	ug/m3	4.3	04/17/16 16:58	
TO-15	Carbon disulfide	1.1	ug/m3	0.91	04/17/16 16:58	
TO-15	Chloroform	10.8	ug/m3	0.71	04/17/16 16:58	
TO-15	Cyclohexane	3.2	ug/m3	1.0	04/17/16 16:58	
TO-15	1,3-Dichlorobenzene	288	ug/m3	4.4	04/17/16 16:58	
TO-15	Dichlorodifluoromethane	4.3	ug/m3	1.5	04/17/16 16:58	
TO-15	1,1-Dichloroethene	55.4	ug/m3	1.2	04/17/16 16:58	
TO-15	cis-1,2-Dichloroethene	3790	ug/m3	746	04/18/16 16:03	C0,IU
TO-15	trans-1,2-Dichloroethene	5.8	ug/m3	1.2	04/17/16 16:58	
TO-15	1,2-Dichloropropane	5.8	ug/m3	1.4	04/17/16 16:58	
TO-15	Ethyl acetate	3.6	ug/m3	1.1	04/17/16 16:58	
TO-15	Ethylbenzene	15.7	ug/m3	1.3	04/17/16 16:58	
TO-15	4-Ethyltoluene	5.4	ug/m3	1.4	04/17/16 16:58	
TO-15	n-Heptane	7.1	ug/m3	1.2	04/17/16 16:58	
TO-15	n-Hexane	5.7	ug/m3	1.0	04/17/16 16:58	
TO-15	Methyl-tert-butyl ether	26.7	ug/m3	5.3	04/17/16 16:58	
TO-15	2-Propanol	430000	ug/m3	2300	04/18/16 16:03	C0,E,IU

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343713010	**SSV-36**					
TO-15	Styrene	4.2	ug/m3	1.3	04/17/16 16:58	
TO-15	Tetrachloroethene	47100	ug/m3	635	04/18/16 16:03	
TO-15	Tetrahydrofuran	2.6	ug/m3	0.86	04/17/16 16:58	
TO-15	1,1,1-Trichloroethane	1.6	ug/m3	1.6	04/17/16 16:58	
TO-15	Trichloroethene	2670	ug/m3	507	04/18/16 16:03	C0,IU
TO-15	Trichlorofluoromethane	1.9	ug/m3	1.6	04/17/16 16:58	
TO-15	1,2,4-Trimethylbenzene	13.1	ug/m3	1.4	04/17/16 16:58	
TO-15	1,3,5-Trimethylbenzene	4.0	ug/m3	1.4	04/17/16 16:58	
TO-15	m&p-Xylene	67.6	ug/m3	2.5	04/17/16 16:58	
TO-15	o-Xylene	20.6	ug/m3	1.3	04/17/16 16:58	

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Date: April 20, 2016

B-SSV-1 (Lab ID: 10343713001)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

B-SSV-2 (Lab ID: 10343713002)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-29 (Lab ID: 10343713003)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-30 (Lab ID: 10343713004)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-31 (Lab ID: 10343713005)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).
- Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

SSV-32 (Lab ID: 10343713006)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

SSV-33 (Lab ID: 10343713007)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).
- Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

SSV-34 (Lab ID: 10343713008)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-35 (Lab ID: 10343713009)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

SSV-36 (Lab ID: 10343713010)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).
- Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: April 20, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: AIR/25702

IQ: The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

- B-SSV-2 (Lab ID: 10343713002)
- SSV-29 (Lab ID: 10343713003)
- SSV-32 (Lab ID: 10343713006)

IU: The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.

- B-SSV-1 (Lab ID: 10343713001)
  - 2-Propanol
- B-SSV-2 (Lab ID: 10343713002)
  - 2-Propanol
- SSV-30 (Lab ID: 10343713004)
  - 2-Propanol
- SSV-34 (Lab ID: 10343713008)
  - 2-Propanol

QC Batch: AIR/25717

IU: The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.

- SSV-31 (Lab ID: 10343713005)
  - 2-Propanol
  - Tetrachloroethene
  - Toluene
  - cis-1,2-Dichloroethene
- SSV-33 (Lab ID: 10343713007)
  - 2-Propanol
  - Toluene
- SSV-36 (Lab ID: 10343713010)
  - 2-Propanol

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: April 20, 2016

QC Batch: AIR/25717

IU: The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.

- Toluene
- Trichloroethene
- cis-1,2-Dichloroethene

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/25702

C0: Result confirmed by second analysis.

- B-SSV-1 (Lab ID: 10343713001)
  - 2-Propanol
- B-SSV-2 (Lab ID: 10343713002)
  - 2-Propanol
- SSV-30 (Lab ID: 10343713004)
  - 2-Propanol
- SSV-34 (Lab ID: 10343713008)
  - 2-Propanol

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- B-SSV-1 (Lab ID: 10343713001)
  - 2-Propanol
  - Tetrachloroethene
- B-SSV-2 (Lab ID: 10343713002)
  - 2-Propanol
  - Acetone
- SSV-29 (Lab ID: 10343713003)
  - 2-Propanol
  - Acetone
- SSV-30 (Lab ID: 10343713004)
  - 2-Propanol
- SSV-32 (Lab ID: 10343713006)
  - Acetone
- SSV-34 (Lab ID: 10343713008)
  - 2-Propanol
- SSV-35 (Lab ID: 10343713009)
  - 2-Propanol

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: April 20, 2016

Analyte Comments:

QC Batch: AIR/25717

C0: Result confirmed by second analysis.

- SSV-31 (Lab ID: 10343713005)
  - 2-Propanol
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Toluene
- SSV-33 (Lab ID: 10343713007)
  - 2-Propanol
  - Toluene
- SSV-36 (Lab ID: 10343713010)
  - 2-Propanol
  - cis-1,2-Dichloroethene
  - Toluene
  - Trichloroethene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- SSV-31 (Lab ID: 10343713005)
  - 2-Propanol
- SSV-33 (Lab ID: 10343713007)
  - 2-Propanol
- SSV-36 (Lab ID: 10343713010)
  - 2-Propanol

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Method: **TO-15**
Description: Individual Can Certification
Client: AECOM- MN ND
Date: April 20, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-1 **Lab ID: 10343713001** Collected: 04/01/16 09:51 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**217**	ug/m3	3.2	1.1	1.34		04/14/16 17:36	67-64-1	
Benzene	**4.7**	ug/m3	0.44	0.16	1.34		04/14/16 17:36	71-43-2	
Benzyl chloride	ND	ug/m3	3.5	0.22	1.34		04/14/16 17:36	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		04/14/16 17:36	75-27-4	
Bromoform	ND	ug/m3	7.0	1.2	1.34		04/14/16 17:36	75-25-2	
Bromomethane	**1.3**	ug/m3	1.1	0.42	1.34		04/14/16 17:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		04/14/16 17:36	106-99-0	
2-Butanone (MEK)	**20.9**	ug/m3	4.0	0.31	1.34		04/14/16 17:36	78-93-3	
Carbon disulfide	**2.6**	ug/m3	0.84	0.14	1.34		04/14/16 17:36	75-15-0	
Carbon tetrachloride	**1.9**	ug/m3	1.7	0.26	1.34		04/14/16 17:36	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		04/14/16 17:36	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		04/14/16 17:36	75-00-3	
Chloroform	**1.4**	ug/m3	0.66	0.25	1.34		04/14/16 17:36	67-66-3	
Chloromethane	**3.0**	ug/m3	0.56	0.14	1.34		04/14/16 17:36	74-87-3	
Cyclohexane	**6.2**	ug/m3	0.94	0.42	1.34		04/14/16 17:36	110-82-7	
Dibromochloromethane	ND	ug/m3	11.6	1.1	1.34		04/14/16 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		04/14/16 17:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		04/14/16 17:36	95-50-1	
1,3-Dichlorobenzene	**152**	ug/m3	4.1	0.71	1.34		04/14/16 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.1	0.67	1.34		04/14/16 17:36	106-46-7	
Dichlorodifluoromethane	**1.5**	ug/m3	1.4	0.64	1.34		04/14/16 17:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		04/14/16 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		04/14/16 17:36	107-06-2	
1,1-Dichloroethene	**9.5**	ug/m3	1.1	0.32	1.34		04/14/16 17:36	75-35-4	
cis-1,2-Dichloroethene	**122**	ug/m3	1.1	0.33	1.34		04/14/16 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		04/14/16 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		04/14/16 17:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		04/14/16 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.1	0.35	1.34		04/14/16 17:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		04/14/16 17:36	76-14-2	
Ethanol	ND	ug/m3	1.3	0.36	1.34		04/14/16 17:36	64-17-5	
Ethyl acetate	**3.0**	ug/m3	0.98	0.47	1.34		04/14/16 17:36	141-78-6	
Ethylbenzene	**6.1**	ug/m3	1.2	0.57	1.34		04/14/16 17:36	100-41-4	
4-Ethyltoluene	**3.2**	ug/m3	1.3	0.25	1.34		04/14/16 17:36	622-96-8	
n-Heptane	**7.4**	ug/m3	1.1	0.37	1.34		04/14/16 17:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		04/14/16 17:36	87-68-3	
n-Hexane	**75.9**	ug/m3	0.96	0.48	1.34		04/14/16 17:36	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		04/14/16 17:36	591-78-6	
Methylene Chloride	**423**	ug/m3	4.7	0.73	1.34		04/14/16 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		04/14/16 17:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		04/14/16 17:36	1634-04-4	
Naphthalene	**6.1**	ug/m3	3.6	0.41	1.34		04/14/16 17:36	91-20-3	
2-Propanol	**845000**	ug/m3	4290	412	1715.2		04/18/16 13:14	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.47	0.18	1.34		04/14/16 17:36	115-07-1	
Styrene	**3.1**	ug/m3	2.9	0.26	1.34		04/14/16 17:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		04/14/16 17:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-1 **Lab ID: 10343713001** Collected: 04/01/16 09:51 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2020**	ug/m3	0.92	0.37	1.34		04/14/16 17:36	127-18-4	E
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		04/14/16 17:36	109-99-9	
Toluene	**59.7**	ug/m3	1.0	0.21	1.34		04/14/16 17:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.1	1.2	1.34		04/14/16 17:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		04/14/16 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		04/14/16 17:36	79-00-5	
Trichloroethene	**131**	ug/m3	0.74	0.37	1.34		04/14/16 17:36	79-01-6	
Trichlorofluoromethane	**2.3**	ug/m3	1.5	0.18	1.34		04/14/16 17:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		04/14/16 17:36	76-13-1	
1,2,4-Trimethylbenzene	**8.4**	ug/m3	1.3	0.17	1.34		04/14/16 17:36	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.3	0.25	1.34		04/14/16 17:36	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		04/14/16 17:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		04/14/16 17:36	75-01-4	
m&p-Xylene	**25.7**	ug/m3	2.4	1.1	1.34		04/14/16 17:36	179601-23-1	
o-Xylene	**8.9**	ug/m3	3.0	0.47	1.34		04/14/16 17:36	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-2 **Lab ID: 10343713002** Collected: 04/01/16 09:49 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**943**	ug/m3	3.4	1.2	1.39		04/14/16 18:03	67-64-1	E
Benzene	**8.5**	ug/m3	0.45	0.17	1.39		04/14/16 18:03	71-43-2	
Benzyl chloride	ND	ug/m3	3.7	0.23	1.39		04/14/16 18:03	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/14/16 18:03	75-27-4	
Bromoform	ND	ug/m3	7.3	1.3	1.39		04/14/16 18:03	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/14/16 18:03	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/14/16 18:03	106-99-0	
2-Butanone (MEK)	**162**	ug/m3	4.2	0.32	1.39		04/14/16 18:03	78-93-3	
Carbon disulfide	**1.3**	ug/m3	0.88	0.14	1.39		04/14/16 18:03	75-15-0	
Carbon tetrachloride	**3.6**	ug/m3	1.8	0.27	1.39		04/14/16 18:03	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/14/16 18:03	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/14/16 18:03	75-00-3	
Chloroform	**4.7**	ug/m3	0.69	0.26	1.39		04/14/16 18:03	67-66-3	
Chloromethane	**3.7**	ug/m3	0.58	0.15	1.39		04/14/16 18:03	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		04/14/16 18:03	110-82-7	
Dibromochloromethane	ND	ug/m3	12.0	1.2	1.39		04/14/16 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/14/16 18:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/14/16 18:03	95-50-1	
1,3-Dichlorobenzene	**143**	ug/m3	4.2	0.74	1.39		04/14/16 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	679	111	222.4		04/17/16 18:08	106-46-7	
Dichlorodifluoromethane	**4.4**	ug/m3	1.4	0.67	1.39		04/14/16 18:03	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/14/16 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/14/16 18:03	107-06-2	
1,1-Dichloroethene	**14.4**	ug/m3	1.1	0.33	1.39		04/14/16 18:03	75-35-4	
cis-1,2-Dichloroethene	**178**	ug/m3	1.1	0.34	1.39		04/14/16 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/14/16 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/14/16 18:03	78-87-5	
cis-1,3-Dichloropropene	**6.0**	ug/m3	1.3	0.51	1.39		04/14/16 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.2	0.36	1.39		04/14/16 18:03	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/14/16 18:03	76-14-2	
Ethanol	ND	ug/m3	1.3	0.37	1.39		04/14/16 18:03	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		04/14/16 18:03	141-78-6	
Ethylbenzene	**25.4**	ug/m3	1.2	0.59	1.39		04/14/16 18:03	100-41-4	
4-Ethyltoluene	**9.3**	ug/m3	1.4	0.26	1.39		04/14/16 18:03	622-96-8	
n-Heptane	**46.9**	ug/m3	1.2	0.39	1.39		04/14/16 18:03	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		04/14/16 18:03	87-68-3	
n-Hexane	**27.5**	ug/m3	1.0	0.50	1.39		04/14/16 18:03	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/14/16 18:03	591-78-6	
Methylene Chloride	**47.2**	ug/m3	4.9	0.75	1.39		04/14/16 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**28.7**	ug/m3	5.8	0.30	1.39		04/14/16 18:03	108-10-1	
Methyl-tert-butyl ether	**79.1**	ug/m3	5.1	0.42	1.39		04/14/16 18:03	1634-04-4	
Naphthalene	**5.7**	ug/m3	3.7	0.42	1.39		04/14/16 18:03	91-20-3	
2-Propanol	**897000**	ug/m3	4450	427	1779.2		04/18/16 13:42	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.49	0.19	1.39		04/14/16 18:03	115-07-1	
Styrene	**8.0**	ug/m3	3.0	0.27	1.39		04/14/16 18:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/14/16 18:03	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-2 **Lab ID: 10343713002** Collected: 04/01/16 09:49 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**358**	ug/m3	153	61.8	222.4		04/17/16 18:08	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/14/16 18:03	109-99-9	
Toluene	**543**	ug/m3	171	34.2	222.4		04/17/16 18:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/14/16 18:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		04/14/16 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/14/16 18:03	79-00-5	
Trichloroethene	**154**	ug/m3	122	61.4	222.4		04/17/16 18:08	79-01-6	
Trichlorofluoromethane	**3.9**	ug/m3	1.6	0.18	1.39		04/14/16 18:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/14/16 18:03	76-13-1	
1,2,4-Trimethylbenzene	**16.3**	ug/m3	1.4	0.17	1.39		04/14/16 18:03	95-63-6	
1,3,5-Trimethylbenzene	**5.4**	ug/m3	1.4	0.25	1.39		04/14/16 18:03	108-67-8	
Vinyl acetate	**15.9**	ug/m3	1.0	0.46	1.39		04/14/16 18:03	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/14/16 18:03	75-01-4	
m&p-Xylene	**106**	ug/m3	2.5	1.1	1.39		04/14/16 18:03	179601-23-1	
o-Xylene	**29.5**	ug/m3	3.1	0.49	1.39		04/14/16 18:03	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-29 **Lab ID: 10343713003** Collected: 04/01/16 15:09 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**980**	ug/m3	3.5	1.2	1.44		04/14/16 18:30	67-64-1	E
Benzene	**9.2**	ug/m3	0.47	0.18	1.44		04/14/16 18:30	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.24	1.44		04/14/16 18:30	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		04/14/16 18:30	75-27-4	
Bromoform	ND	ug/m3	7.6	1.3	1.44		04/14/16 18:30	75-25-2	
Bromomethane	**1.4**	ug/m3	1.1	0.45	1.44		04/14/16 18:30	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/14/16 18:30	106-99-0	
2-Butanone (MEK)	**143**	ug/m3	4.3	0.33	1.44		04/14/16 18:30	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		04/14/16 18:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.28	1.44		04/14/16 18:30	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/14/16 18:30	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/14/16 18:30	75-00-3	
Chloroform	**3.0**	ug/m3	0.71	0.27	1.44		04/14/16 18:30	67-66-3	
Chloromethane	**6.6**	ug/m3	0.60	0.16	1.44		04/14/16 18:30	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.46	1.44		04/14/16 18:30	110-82-7	
Dibromochloromethane	ND	ug/m3	12.5	1.2	1.44		04/14/16 18:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/14/16 18:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		04/14/16 18:30	95-50-1	
1,3-Dichlorobenzene	**277**	ug/m3	4.4	0.76	1.44		04/14/16 18:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	704	115	230.4		04/17/16 17:45	106-46-7	
Dichlorodifluoromethane	**5.7**	ug/m3	1.5	0.69	1.44		04/14/16 18:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/14/16 18:30	75-34-3	
1,2-Dichloroethane	**8.5**	ug/m3	0.59	0.30	1.44		04/14/16 18:30	107-06-2	
1,1-Dichloroethene	**6.6**	ug/m3	1.2	0.34	1.44		04/14/16 18:30	75-35-4	
cis-1,2-Dichloroethene	**345**	ug/m3	187	56.7	230.4		04/17/16 17:45	156-59-2	
trans-1,2-Dichloroethene	**1.2**	ug/m3	1.2	0.55	1.44		04/14/16 18:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		04/14/16 18:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/14/16 18:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	0.37	1.44		04/14/16 18:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/14/16 18:30	76-14-2	
Ethanol	ND	ug/m3	1.4	0.38	1.44		04/14/16 18:30	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		04/14/16 18:30	141-78-6	
Ethylbenzene	**31.3**	ug/m3	1.3	0.61	1.44		04/14/16 18:30	100-41-4	
4-Ethyltoluene	**13.4**	ug/m3	1.4	0.27	1.44		04/14/16 18:30	622-96-8	
n-Heptane	**50.2**	ug/m3	1.2	0.40	1.44		04/14/16 18:30	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		04/14/16 18:30	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		04/14/16 18:30	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		04/14/16 18:30	591-78-6	
Methylene Chloride	**41.9**	ug/m3	5.1	0.78	1.44		04/14/16 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**20.1**	ug/m3	6.0	0.31	1.44		04/14/16 18:30	108-10-1	
Methyl-tert-butyl ether	**69.1**	ug/m3	5.3	0.44	1.44		04/14/16 18:30	1634-04-4	
Naphthalene	**6.3**	ug/m3	3.8	0.44	1.44		04/14/16 18:30	91-20-3	
2-Propanol	**200000**	ug/m3	576	55.3	230.4		04/17/16 17:45	67-63-0	E
Propylene	ND	ug/m3	0.50	0.19	1.44		04/14/16 18:30	115-07-1	
Styrene	**7.7**	ug/m3	3.1	0.28	1.44		04/14/16 18:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/14/16 18:30	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-29 **Lab ID: 10343713003** Collected: 04/01/16 15:09 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**7770**	ug/m3	159	64.1	230.4		04/17/16 17:45	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		04/14/16 18:30	109-99-9	
Toluene	**180**	ug/m3	177	35.5	230.4		04/17/16 17:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	1.3	1.44		04/14/16 18:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		04/14/16 18:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/14/16 18:30	79-00-5	
Trichloroethene	**406**	ug/m3	127	63.6	230.4		04/17/16 17:45	79-01-6	
Trichlorofluoromethane	**5.4**	ug/m3	1.6	0.19	1.44		04/14/16 18:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/14/16 18:30	76-13-1	
1,2,4-Trimethylbenzene	**27.3**	ug/m3	1.4	0.18	1.44		04/14/16 18:30	95-63-6	
1,3,5-Trimethylbenzene	**8.3**	ug/m3	1.4	0.26	1.44		04/14/16 18:30	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		04/14/16 18:30	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/14/16 18:30	75-01-4	
m&p-Xylene	**117**	ug/m3	2.5	1.1	1.44		04/14/16 18:30	179601-23-1	
o-Xylene	**34.4**	ug/m3	3.2	0.51	1.44		04/14/16 18:30	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-30 **Lab ID: 10343713004** Collected: 04/01/16 14:19 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**310**	ug/m3	3.4	1.2	1.39		04/14/16 18:59	67-64-1	
Benzene	**4.2**	ug/m3	0.45	0.17	1.39		04/14/16 18:59	71-43-2	
Benzyl chloride	ND	ug/m3	3.7	0.23	1.39		04/14/16 18:59	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/14/16 18:59	75-27-4	
Bromoform	ND	ug/m3	7.3	1.3	1.39		04/14/16 18:59	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/14/16 18:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/14/16 18:59	106-99-0	
2-Butanone (MEK)	**25.5**	ug/m3	4.2	0.32	1.39		04/14/16 18:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		04/14/16 18:59	75-15-0	
Carbon tetrachloride	**1.8**	ug/m3	1.8	0.27	1.39		04/14/16 18:59	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/14/16 18:59	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/14/16 18:59	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		04/14/16 18:59	67-66-3	
Chloromethane	**1.3**	ug/m3	0.58	0.15	1.39		04/14/16 18:59	74-87-3	
Cyclohexane	**5.7**	ug/m3	0.97	0.44	1.39		04/14/16 18:59	110-82-7	
Dibromochloromethane	ND	ug/m3	12.0	1.2	1.39		04/14/16 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/14/16 18:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/14/16 18:59	95-50-1	
1,3-Dichlorobenzene	**149**	ug/m3	4.2	0.74	1.39		04/14/16 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	340	55.5	111.2		04/17/16 18:55	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.4	0.67	1.39		04/14/16 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/14/16 18:59	75-34-3	
1,2-Dichloroethane	**8.1**	ug/m3	0.57	0.28	1.39		04/14/16 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/14/16 18:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		04/14/16 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/14/16 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/14/16 18:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/14/16 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.2	0.36	1.39		04/14/16 18:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/14/16 18:59	76-14-2	
Ethanol	ND	ug/m3	1.3	0.37	1.39		04/14/16 18:59	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		04/14/16 18:59	141-78-6	
Ethylbenzene	**10.5**	ug/m3	1.2	0.59	1.39		04/14/16 18:59	100-41-4	
4-Ethyltoluene	**3.7**	ug/m3	1.4	0.26	1.39		04/14/16 18:59	622-96-8	
n-Heptane	**10.4**	ug/m3	1.2	0.39	1.39		04/14/16 18:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		04/14/16 18:59	87-68-3	
n-Hexane	**16.2**	ug/m3	1.0	0.50	1.39		04/14/16 18:59	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/14/16 18:59	591-78-6	
Methylene Chloride	**291**	ug/m3	4.9	0.75	1.39		04/14/16 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/14/16 18:59	108-10-1	
Methyl-tert-butyl ether	**10.3**	ug/m3	5.1	0.42	1.39		04/14/16 18:59	1634-04-4	
Naphthalene	**6.4**	ug/m3	3.7	0.42	1.39		04/14/16 18:59	91-20-3	
2-Propanol	**535000**	ug/m3	2220	214	889.6		04/18/16 14:10	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.49	0.19	1.39		04/14/16 18:59	115-07-1	
Styrene	**4.7**	ug/m3	3.0	0.27	1.39		04/14/16 18:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/14/16 18:59	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-30 **Lab ID: 10343713004** Collected: 04/01/16 14:19 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**51.1**	ug/m3	0.96	0.39	1.39		04/14/16 18:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/14/16 18:59	109-99-9	
Toluene	**160**	ug/m3	1.1	0.21	1.39		04/14/16 18:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/14/16 18:59	120-82-1	
1,1,1-Trichloroethane	**18.7**	ug/m3	1.5	0.34	1.39		04/14/16 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/14/16 18:59	79-00-5	
Trichloroethene	**5.6**	ug/m3	0.76	0.38	1.39		04/14/16 18:59	79-01-6	
Trichlorofluoromethane	**2.4**	ug/m3	1.6	0.18	1.39		04/14/16 18:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/14/16 18:59	76-13-1	
1,2,4-Trimethylbenzene	**8.2**	ug/m3	1.4	0.17	1.39		04/14/16 18:59	95-63-6	
1,3,5-Trimethylbenzene	**3.4**	ug/m3	1.4	0.25	1.39		04/14/16 18:59	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		04/14/16 18:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/14/16 18:59	75-01-4	
m&p-Xylene	**43.1**	ug/m3	2.5	1.1	1.39		04/14/16 18:59	179601-23-1	
o-Xylene	**13.9**	ug/m3	3.1	0.49	1.39		04/14/16 18:59	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-31 **Lab ID: 10343713005** Collected: 04/01/16 14:20 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**356**	ug/m3	3.4	1.2	1.39		04/17/16 15:59	67-64-1	
Benzene	**8.6**	ug/m3	0.45	0.17	1.39		04/17/16 15:59	71-43-2	
Benzyl chloride	ND	ug/m3	3.7	0.23	1.39		04/17/16 15:59	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/17/16 15:59	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		04/17/16 15:59	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/17/16 15:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/17/16 15:59	106-99-0	
2-Butanone (MEK)	**107**	ug/m3	4.2	0.32	1.39		04/17/16 15:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		04/17/16 15:59	75-15-0	
Carbon tetrachloride	**3.8**	ug/m3	0.89	0.27	1.39		04/17/16 15:59	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/17/16 15:59	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/17/16 15:59	75-00-3	
Chloroform	**2.0**	ug/m3	0.69	0.26	1.39		04/17/16 15:59	67-66-3	
Chloromethane	**2.3**	ug/m3	0.58	0.15	1.39		04/17/16 15:59	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		04/17/16 15:59	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		04/17/16 15:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/17/16 15:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.2	0.71	1.39		04/17/16 15:59	95-50-1	
1,3-Dichlorobenzene	**83.0**	ug/m3	4.2	0.74	1.39		04/17/16 15:59	541-73-1	
1,4-Dichlorobenzene	**178**	ug/m3	4.2	0.69	1.39		04/17/16 15:59	106-46-7	
Dichlorodifluoromethane	**3.4**	ug/m3	1.4	0.67	1.39		04/17/16 15:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/17/16 15:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/17/16 15:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/17/16 15:59	75-35-4	
cis-1,2-Dichloroethene	**528**	ug/m3	360	109	444.8		04/18/16 15:06	156-59-2	C0,IU
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/17/16 15:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/17/16 15:59	78-87-5	
cis-1,3-Dichloropropene	**1.9**	ug/m3	1.3	0.51	1.39		04/17/16 15:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.2	0.36	1.39		04/17/16 15:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/17/16 15:59	76-14-2	
Ethanol	ND	ug/m3	1.3	0.37	1.39		04/17/16 15:59	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		04/17/16 15:59	141-78-6	
Ethylbenzene	**26.5**	ug/m3	1.2	0.59	1.39		04/17/16 15:59	100-41-4	
4-Ethyltoluene	**10.0**	ug/m3	1.4	0.26	1.39		04/17/16 15:59	622-96-8	
n-Heptane	**15.9**	ug/m3	1.2	0.39	1.39		04/17/16 15:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		04/17/16 15:59	87-68-3	
n-Hexane	**14.1**	ug/m3	1.0	0.50	1.39		04/17/16 15:59	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/17/16 15:59	591-78-6	
Methylene Chloride	**20.3**	ug/m3	4.9	0.75	1.39		04/17/16 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/17/16 15:59	108-10-1	
Methyl-tert-butyl ether	**45.9**	ug/m3	5.1	0.42	1.39		04/17/16 15:59	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		04/17/16 15:59	91-20-3	
2-Propanol	**472000**	ug/m3	1110	107	444.8		04/18/16 15:06	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.49	0.19	1.39		04/17/16 15:59	115-07-1	
Styrene	**5.1**	ug/m3	1.2	0.27	1.39		04/17/16 15:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/17/16 15:59	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-31 **Lab ID: 10343713005** Collected: 04/01/16 14:20 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**3480**	ug/m3	306	124	444.8		04/18/16 15:06	127-18-4	C0,IU
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/17/16 15:59	109-99-9	
Toluene	**720**	ug/m3	342	68.5	444.8		04/18/16 15:06	108-88-3	C0,IU
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		04/17/16 15:59	120-82-1	
1,1,1-Trichloroethane	**1.7**	ug/m3	1.5	0.34	1.39		04/17/16 15:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/17/16 15:59	79-00-5	
Trichloroethene	**181**	ug/m3	0.76	0.38	1.39		04/17/16 15:59	79-01-6	
Trichlorofluoromethane	**1.7**	ug/m3	1.6	0.18	1.39		04/17/16 15:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/17/16 15:59	76-13-1	
1,2,4-Trimethylbenzene	**14.1**	ug/m3	1.4	0.17	1.39		04/17/16 15:59	95-63-6	
1,3,5-Trimethylbenzene	**5.9**	ug/m3	1.4	0.25	1.39		04/17/16 15:59	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		04/17/16 15:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/17/16 15:59	75-01-4	
m&p-Xylene	**105**	ug/m3	2.5	1.1	1.39		04/17/16 15:59	179601-23-1	
o-Xylene	**30.9**	ug/m3	1.2	0.49	1.39		04/17/16 15:59	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-32 **Lab ID: 10343713006** Collected: 04/01/16 15:36 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1010**	ug/m3	3.5	1.2	1.44		04/14/16 19:54	67-64-1	E
Benzene	**8.1**	ug/m3	0.47	0.18	1.44		04/14/16 19:54	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.24	1.44		04/14/16 19:54	100-44-7	
Bromodichloromethane	**3.9**	ug/m3	2.0	0.28	1.44		04/14/16 19:54	75-27-4	
Bromoform	ND	ug/m3	7.6	1.3	1.44		04/14/16 19:54	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		04/14/16 19:54	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/14/16 19:54	106-99-0	
2-Butanone (MEK)	**181**	ug/m3	4.3	0.33	1.44		04/14/16 19:54	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		04/14/16 19:54	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.28	1.44		04/14/16 19:54	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/14/16 19:54	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/14/16 19:54	75-00-3	
Chloroform	**11.9**	ug/m3	0.71	0.27	1.44		04/14/16 19:54	67-66-3	
Chloromethane	**2.4**	ug/m3	0.60	0.16	1.44		04/14/16 19:54	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.46	1.44		04/14/16 19:54	110-82-7	
Dibromochloromethane	ND	ug/m3	12.5	1.2	1.44		04/14/16 19:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/14/16 19:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		04/14/16 19:54	95-50-1	
1,3-Dichlorobenzene	**116**	ug/m3	4.4	0.76	1.44		04/14/16 19:54	541-73-1	
1,4-Dichlorobenzene	**216**	ug/m3	4.4	0.72	1.44		04/14/16 19:54	106-46-7	
Dichlorodifluoromethane	**6.7**	ug/m3	1.5	0.69	1.44		04/14/16 19:54	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/14/16 19:54	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		04/14/16 19:54	107-06-2	
1,1-Dichloroethene	**130**	ug/m3	1.2	0.34	1.44		04/14/16 19:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	93.3	28.3	115.2		04/17/16 17:22	156-59-2	
trans-1,2-Dichloroethene	**8.7**	ug/m3	1.2	0.55	1.44		04/14/16 19:54	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		04/14/16 19:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/14/16 19:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	0.37	1.44		04/14/16 19:54	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/14/16 19:54	76-14-2	
Ethanol	ND	ug/m3	1.4	0.38	1.44		04/14/16 19:54	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		04/14/16 19:54	141-78-6	
Ethylbenzene	**22.8**	ug/m3	1.3	0.61	1.44		04/14/16 19:54	100-41-4	
4-Ethyltoluene	**7.3**	ug/m3	1.4	0.27	1.44		04/14/16 19:54	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		04/14/16 19:54	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		04/14/16 19:54	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		04/14/16 19:54	110-54-3	
2-Hexanone	**6.1**	ug/m3	6.0	0.59	1.44		04/14/16 19:54	591-78-6	
Methylene Chloride	**36.8**	ug/m3	5.1	0.78	1.44		04/14/16 19:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**16.4**	ug/m3	6.0	0.31	1.44		04/14/16 19:54	108-10-1	
Methyl-tert-butyl ether	**94.2**	ug/m3	5.3	0.44	1.44		04/14/16 19:54	1634-04-4	
Naphthalene	**3.9**	ug/m3	3.8	0.44	1.44		04/14/16 19:54	91-20-3	
2-Propanol	**19500**	ug/m3	288	27.6	115.2		04/17/16 17:22	67-63-0	
Propylene	ND	ug/m3	0.50	0.19	1.44		04/14/16 19:54	115-07-1	
Styrene	**7.3**	ug/m3	3.1	0.28	1.44		04/14/16 19:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/14/16 19:54	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-32 **Lab ID: 10343713006** Collected: 04/01/16 15:36 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**450**	ug/m3	79.4	32.0	115.2		04/17/16 17:22	127-18-4	
Tetrahydrofuran	**29.5**	ug/m3	0.86	0.17	1.44		04/14/16 19:54	109-99-9	
Toluene	**108**	ug/m3	88.7	17.7	115.2		04/17/16 17:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	1.3	1.44		04/14/16 19:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		04/14/16 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/14/16 19:54	79-00-5	
Trichloroethene	ND	ug/m3	63.4	31.8	115.2		04/17/16 17:22	79-01-6	
Trichlorofluoromethane	**6.4**	ug/m3	1.6	0.19	1.44		04/14/16 19:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/14/16 19:54	76-13-1	
1,2,4-Trimethylbenzene	**5.3**	ug/m3	1.4	0.18	1.44		04/14/16 19:54	95-63-6	
1,3,5-Trimethylbenzene	**4.8**	ug/m3	1.4	0.26	1.44		04/14/16 19:54	108-67-8	
Vinyl acetate	**10.7**	ug/m3	1.0	0.48	1.44		04/14/16 19:54	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/14/16 19:54	75-01-4	
m&p-Xylene	**93.0**	ug/m3	2.5	1.1	1.44		04/14/16 19:54	179601-23-1	
o-Xylene	**27.1**	ug/m3	3.2	0.51	1.44		04/14/16 19:54	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-33 **Lab ID: 10343713007** Collected: 04/01/16 15:40 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**147**	ug/m3	3.5	1.2	1.44		04/17/16 16:28	67-64-1	
Benzene	**3.4**	ug/m3	0.47	0.18	1.44		04/17/16 16:28	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.24	1.44		04/17/16 16:28	100-44-7	
Bromodichloromethane	**3.2**	ug/m3	2.0	0.28	1.44		04/17/16 16:28	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		04/17/16 16:28	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		04/17/16 16:28	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/17/16 16:28	106-99-0	
2-Butanone (MEK)	**45.2**	ug/m3	4.3	0.33	1.44		04/17/16 16:28	78-93-3	
Carbon disulfide	**4.8**	ug/m3	0.91	0.15	1.44		04/17/16 16:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		04/17/16 16:28	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/17/16 16:28	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/17/16 16:28	75-00-3	
Chloroform	**11.4**	ug/m3	0.71	0.27	1.44		04/17/16 16:28	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		04/17/16 16:28	74-87-3	
Cyclohexane	**2.8**	ug/m3	1.0	0.46	1.44		04/17/16 16:28	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		04/17/16 16:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/17/16 16:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.4	0.74	1.44		04/17/16 16:28	95-50-1	
1,3-Dichlorobenzene	**185**	ug/m3	4.4	0.76	1.44		04/17/16 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	562	230	460.8		04/18/16 15:35	106-46-7	
Dichlorodifluoromethane	**1.6**	ug/m3	1.5	0.69	1.44		04/17/16 16:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/17/16 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		04/17/16 16:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		04/17/16 16:28	75-35-4	
cis-1,2-Dichloroethene	**17.0**	ug/m3	1.2	0.35	1.44		04/17/16 16:28	156-59-2	
trans-1,2-Dichloroethene	**1.7**	ug/m3	1.2	0.55	1.44		04/17/16 16:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		04/17/16 16:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/17/16 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	0.37	1.44		04/17/16 16:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/17/16 16:28	76-14-2	
Ethanol	ND	ug/m3	1.4	0.38	1.44		04/17/16 16:28	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		04/17/16 16:28	141-78-6	
Ethylbenzene	**13.5**	ug/m3	1.3	0.61	1.44		04/17/16 16:28	100-41-4	
4-Ethyltoluene	**4.3**	ug/m3	1.4	0.27	1.44		04/17/16 16:28	622-96-8	
n-Heptane	**8.2**	ug/m3	1.2	0.40	1.44		04/17/16 16:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		04/17/16 16:28	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		04/17/16 16:28	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		04/17/16 16:28	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		04/17/16 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		04/17/16 16:28	108-10-1	
Methyl-tert-butyl ether	**21.4**	ug/m3	5.3	0.44	1.44		04/17/16 16:28	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		04/17/16 16:28	91-20-3	
2-Propanol	**323000**	ug/m3	1150	111	460.8		04/18/16 15:35	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.50	0.19	1.44		04/17/16 16:28	115-07-1	
Styrene	**5.1**	ug/m3	1.3	0.28	1.44		04/17/16 16:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/17/16 16:28	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-33 **Lab ID: 10343713007** Collected: 04/01/16 15:40 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**5080**	ug/m3	317	128	460.8		04/18/16 15:35	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		04/17/16 16:28	109-99-9	
Toluene	ND	ug/m3	355	71.0	460.8		04/18/16 15:35	108-88-3	C0,IU
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		04/17/16 16:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		04/17/16 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/17/16 16:28	79-00-5	
Trichloroethene	**26.1**	ug/m3	0.79	0.40	1.44		04/17/16 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.19	1.44		04/17/16 16:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/17/16 16:28	76-13-1	
1,2,4-Trimethylbenzene	**7.1**	ug/m3	1.4	0.18	1.44		04/17/16 16:28	95-63-6	
1,3,5-Trimethylbenzene	**3.6**	ug/m3	1.4	0.26	1.44		04/17/16 16:28	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		04/17/16 16:28	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/17/16 16:28	75-01-4	
m&p-Xylene	**55.4**	ug/m3	2.5	1.1	1.44		04/17/16 16:28	179601-23-1	
o-Xylene	**16.9**	ug/m3	1.3	0.51	1.44		04/17/16 16:28	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-34 **Lab ID: 10343713008** Collected: 04/01/16 14:20 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**401**	ug/m3	3.2	1.1	1.34		04/14/16 20:51	67-64-1	
Benzene	**7.9**	ug/m3	0.44	0.16	1.34		04/14/16 20:51	71-43-2	
Benzyl chloride	ND	ug/m3	3.5	0.22	1.34		04/14/16 20:51	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		04/14/16 20:51	75-27-4	
Bromoform	ND	ug/m3	7.0	1.2	1.34		04/14/16 20:51	75-25-2	
Bromomethane	**9.5**	ug/m3	1.1	0.42	1.34		04/14/16 20:51	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		04/14/16 20:51	106-99-0	
2-Butanone (MEK)	**34.7**	ug/m3	4.0	0.31	1.34		04/14/16 20:51	78-93-3	
Carbon disulfide	**1.0**	ug/m3	0.84	0.14	1.34		04/14/16 20:51	75-15-0	
Carbon tetrachloride	**1.9**	ug/m3	1.7	0.26	1.34		04/14/16 20:51	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		04/14/16 20:51	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		04/14/16 20:51	75-00-3	
Chloroform	**1.9**	ug/m3	0.66	0.25	1.34		04/14/16 20:51	67-66-3	
Chloromethane	**8.9**	ug/m3	0.56	0.14	1.34		04/14/16 20:51	74-87-3	
Cyclohexane	**9.3**	ug/m3	0.94	0.42	1.34		04/14/16 20:51	110-82-7	
Dibromochloromethane	ND	ug/m3	11.6	1.1	1.34		04/14/16 20:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		04/14/16 20:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		04/14/16 20:51	95-50-1	
1,3-Dichlorobenzene	**84.6**	ug/m3	4.1	0.71	1.34		04/14/16 20:51	541-73-1	
1,4-Dichlorobenzene	**161**	ug/m3	4.1	0.67	1.34		04/14/16 20:51	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.4	0.64	1.34		04/14/16 20:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		04/14/16 20:51	75-34-3	
1,2-Dichloroethane	**0.72**	ug/m3	0.55	0.27	1.34		04/14/16 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		04/14/16 20:51	75-35-4	
cis-1,2-Dichloroethene	**29.0**	ug/m3	1.1	0.33	1.34		04/14/16 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		04/14/16 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		04/14/16 20:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		04/14/16 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.1	0.35	1.34		04/14/16 20:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		04/14/16 20:51	76-14-2	
Ethanol	ND	ug/m3	1.3	0.36	1.34		04/14/16 20:51	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		04/14/16 20:51	141-78-6	
Ethylbenzene	**11.6**	ug/m3	1.2	0.57	1.34		04/14/16 20:51	100-41-4	
4-Ethyltoluene	**4.2**	ug/m3	1.3	0.25	1.34		04/14/16 20:51	622-96-8	
n-Heptane	**11.5**	ug/m3	1.1	0.37	1.34		04/14/16 20:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		04/14/16 20:51	87-68-3	
n-Hexane	**52.8**	ug/m3	0.96	0.48	1.34		04/14/16 20:51	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		04/14/16 20:51	591-78-6	
Methylene Chloride	**567**	ug/m3	4.7	0.73	1.34		04/14/16 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		04/14/16 20:51	108-10-1	
Methyl-tert-butyl ether	**18.3**	ug/m3	4.9	0.41	1.34		04/14/16 20:51	1634-04-4	
Naphthalene	**6.3**	ug/m3	3.6	0.41	1.34		04/14/16 20:51	91-20-3	
2-Propanol	**580000**	ug/m3	2140	206	857.6		04/18/16 14:39	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.47	0.18	1.34		04/14/16 20:51	115-07-1	
Styrene	**4.3**	ug/m3	2.9	0.26	1.34		04/14/16 20:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		04/14/16 20:51	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-34 **Lab ID: 10343713008** Collected: 04/01/16 14:20 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**232**	ug/m3	0.92	0.37	1.34		04/14/16 20:51	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		04/14/16 20:51	109-99-9	
Toluene	**435**	ug/m3	41.3	8.3	53.6		04/17/16 19:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.1	1.2	1.34		04/14/16 20:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		04/14/16 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		04/14/16 20:51	79-00-5	
Trichloroethene	**31.1**	ug/m3	0.74	0.37	1.34		04/14/16 20:51	79-01-6	
Trichlorofluoromethane	**4.2**	ug/m3	1.5	0.18	1.34		04/14/16 20:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		04/14/16 20:51	76-13-1	
1,2,4-Trimethylbenzene	**8.7**	ug/m3	1.3	0.17	1.34		04/14/16 20:51	95-63-6	
1,3,5-Trimethylbenzene	**3.2**	ug/m3	1.3	0.25	1.34		04/14/16 20:51	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		04/14/16 20:51	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		04/14/16 20:51	75-01-4	
m&p-Xylene	**47.4**	ug/m3	2.4	1.1	1.34		04/14/16 20:51	179601-23-1	
o-Xylene	**14.3**	ug/m3	3.0	0.47	1.34		04/14/16 20:51	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-35 **Lab ID: 10343713009** Collected: 04/01/16 14:22 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**300**	ug/m3	3.4	1.2	1.39		04/14/16 21:46	67-64-1	
Benzene	**4.2**	ug/m3	0.45	0.17	1.39		04/14/16 21:46	71-43-2	
Benzyl chloride	ND	ug/m3	3.7	0.23	1.39		04/14/16 21:46	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/14/16 21:46	75-27-4	
Bromoform	ND	ug/m3	7.3	1.3	1.39		04/14/16 21:46	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/14/16 21:46	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/14/16 21:46	106-99-0	
2-Butanone (MEK)	**42.1**	ug/m3	4.2	0.32	1.39		04/14/16 21:46	78-93-3	
Carbon disulfide	**0.94**	ug/m3	0.88	0.14	1.39		04/14/16 21:46	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.27	1.39		04/14/16 21:46	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/14/16 21:46	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/14/16 21:46	75-00-3	
Chloroform	**6.2**	ug/m3	0.69	0.26	1.39		04/14/16 21:46	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		04/14/16 21:46	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		04/14/16 21:46	110-82-7	
Dibromochloromethane	ND	ug/m3	12.0	1.2	1.39		04/14/16 21:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/14/16 21:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/14/16 21:46	95-50-1	
1,3-Dichlorobenzene	**89.9**	ug/m3	4.2	0.74	1.39		04/14/16 21:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2720	444	889.6		04/17/16 19:18	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.4	0.67	1.39		04/14/16 21:46	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/14/16 21:46	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/14/16 21:46	107-06-2	
1,1-Dichloroethene	**63.6**	ug/m3	1.1	0.33	1.39		04/14/16 21:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	721	219	889.6		04/17/16 19:18	156-59-2	
trans-1,2-Dichloroethene	**6.5**	ug/m3	1.1	0.53	1.39		04/14/16 21:46	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/14/16 21:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/14/16 21:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.2	0.36	1.39		04/14/16 21:46	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/14/16 21:46	76-14-2	
Ethanol	ND	ug/m3	1.3	0.37	1.39		04/14/16 21:46	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		04/14/16 21:46	141-78-6	
Ethylbenzene	**16.6**	ug/m3	1.2	0.59	1.39		04/14/16 21:46	100-41-4	
4-Ethyltoluene	**6.9**	ug/m3	1.4	0.26	1.39		04/14/16 21:46	622-96-8	
n-Heptane	**9.3**	ug/m3	1.2	0.39	1.39		04/14/16 21:46	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.90	1.39		04/14/16 21:46	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.50	1.39		04/14/16 21:46	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/14/16 21:46	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	0.75	1.39		04/14/16 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/14/16 21:46	108-10-1	
Methyl-tert-butyl ether	**22.0**	ug/m3	5.1	0.42	1.39		04/14/16 21:46	1634-04-4	
Naphthalene	**10.1**	ug/m3	3.7	0.42	1.39		04/14/16 21:46	91-20-3	
2-Propanol	**949000**	ug/m3	2220	214	889.6		04/17/16 19:18	67-63-0	E
Propylene	ND	ug/m3	0.49	0.19	1.39		04/14/16 21:46	115-07-1	
Styrene	**5.5**	ug/m3	3.0	0.27	1.39		04/14/16 21:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/14/16 21:46	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-35 **Lab ID: 10343713009** Collected: 04/01/16 14:22 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**1500**	ug/m3	613	247	889.6		04/17/16 19:18	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/14/16 21:46	109-99-9	
Toluene	ND	ug/m3	685	137	889.6		04/17/16 19:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/14/16 21:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		04/14/16 21:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/14/16 21:46	79-00-5	
Trichloroethene	ND	ug/m3	489	246	889.6		04/17/16 19:18	79-01-6	
Trichlorofluoromethane	**2.7**	ug/m3	1.6	0.18	1.39		04/14/16 21:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/14/16 21:46	76-13-1	
1,2,4-Trimethylbenzene	**11.0**	ug/m3	1.4	0.17	1.39		04/14/16 21:46	95-63-6	
1,3,5-Trimethylbenzene	**5.9**	ug/m3	1.4	0.25	1.39		04/14/16 21:46	108-67-8	
Vinyl acetate	**14.1**	ug/m3	1.0	0.46	1.39		04/14/16 21:46	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/14/16 21:46	75-01-4	
m&p-Xylene	**67.3**	ug/m3	2.5	1.1	1.39		04/14/16 21:46	179601-23-1	
o-Xylene	**21.0**	ug/m3	3.1	0.49	1.39		04/14/16 21:46	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-36 **Lab ID: 10343713010** Collected: 04/01/16 15:10 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**216**	ug/m3	3.5	1.2	1.44		04/17/16 16:58	67-64-1	
Benzene	**3.4**	ug/m3	0.47	0.18	1.44		04/17/16 16:58	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.24	1.44		04/17/16 16:58	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		04/17/16 16:58	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		04/17/16 16:58	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		04/17/16 16:58	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/17/16 16:58	106-99-0	
2-Butanone (MEK)	**45.2**	ug/m3	4.3	0.33	1.44		04/17/16 16:58	78-93-3	
Carbon disulfide	**1.1**	ug/m3	0.91	0.15	1.44		04/17/16 16:58	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		04/17/16 16:58	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/17/16 16:58	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/17/16 16:58	75-00-3	
Chloroform	**10.8**	ug/m3	0.71	0.27	1.44		04/17/16 16:58	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		04/17/16 16:58	74-87-3	
Cyclohexane	**3.2**	ug/m3	1.0	0.46	1.44		04/17/16 16:58	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		04/17/16 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/17/16 16:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.4	0.74	1.44		04/17/16 16:58	95-50-1	
1,3-Dichlorobenzene	**288**	ug/m3	4.4	0.76	1.44		04/17/16 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	0.72	1.44		04/17/16 16:58	106-46-7	
Dichlorodifluoromethane	**4.3**	ug/m3	1.5	0.69	1.44		04/17/16 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/17/16 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		04/17/16 16:58	107-06-2	
1,1-Dichloroethene	**55.4**	ug/m3	1.2	0.34	1.44		04/17/16 16:58	75-35-4	
cis-1,2-Dichloroethene	**3790**	ug/m3	746	227	921.6		04/18/16 16:03	156-59-2	C0,IU
trans-1,2-Dichloroethene	**5.8**	ug/m3	1.2	0.55	1.44		04/17/16 16:58	156-60-5	
1,2-Dichloropropane	**5.8**	ug/m3	1.4	0.39	1.44		04/17/16 16:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/17/16 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	0.37	1.44		04/17/16 16:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/17/16 16:58	76-14-2	
Ethanol	ND	ug/m3	1.4	0.38	1.44		04/17/16 16:58	64-17-5	
Ethyl acetate	**3.6**	ug/m3	1.1	0.50	1.44		04/17/16 16:58	141-78-6	
Ethylbenzene	**15.7**	ug/m3	1.3	0.61	1.44		04/17/16 16:58	100-41-4	
4-Ethyltoluene	**5.4**	ug/m3	1.4	0.27	1.44		04/17/16 16:58	622-96-8	
n-Heptane	**7.1**	ug/m3	1.2	0.40	1.44		04/17/16 16:58	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.94	1.44		04/17/16 16:58	87-68-3	
n-Hexane	**5.7**	ug/m3	1.0	0.51	1.44		04/17/16 16:58	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		04/17/16 16:58	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		04/17/16 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		04/17/16 16:58	108-10-1	
Methyl-tert-butyl ether	**26.7**	ug/m3	5.3	0.44	1.44		04/17/16 16:58	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		04/17/16 16:58	91-20-3	
2-Propanol	**430000**	ug/m3	2300	221	921.6		04/18/16 16:03	67-63-0	C0,E,IU
Propylene	ND	ug/m3	0.50	0.19	1.44		04/17/16 16:58	115-07-1	
Styrene	**4.2**	ug/m3	1.3	0.28	1.44		04/17/16 16:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/17/16 16:58	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-36 **Lab ID: 10343713010** Collected: 04/01/16 15:10 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**47100**	ug/m3	635	256	921.6		04/18/16 16:03	127-18-4	
Tetrahydrofuran	**2.6**	ug/m3	0.86	0.17	1.44		04/17/16 16:58	109-99-9	
Toluene	ND	ug/m3	710	142	921.6		04/18/16 16:03	108-88-3	C0,IU
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		04/17/16 16:58	120-82-1	
1,1,1-Trichloroethane	**1.6**	ug/m3	1.6	0.36	1.44		04/17/16 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/17/16 16:58	79-00-5	
Trichloroethene	**2670**	ug/m3	507	254	921.6		04/18/16 16:03	79-01-6	C0,IU
Trichlorofluoromethane	**1.9**	ug/m3	1.6	0.19	1.44		04/17/16 16:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/17/16 16:58	76-13-1	
1,2,4-Trimethylbenzene	**13.1**	ug/m3	1.4	0.18	1.44		04/17/16 16:58	95-63-6	
1,3,5-Trimethylbenzene	**4.0**	ug/m3	1.4	0.26	1.44		04/17/16 16:58	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		04/17/16 16:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/17/16 16:58	75-01-4	
m&p-Xylene	**67.6**	ug/m3	2.5	1.1	1.44		04/17/16 16:58	179601-23-1	
o-Xylene	**20.6**	ug/m3	1.3	0.51	1.44		04/17/16 16:58	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-1 Can Cert **Lab ID: 10343713011** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/19/16 15:14	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		03/19/16 15:14	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.17	1		03/19/16 15:14	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/19/16 15:14	75-27-4	
Bromoform	ND	ug/m3	5.3	0.90	1		03/19/16 15:14	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/19/16 15:14	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/19/16 15:14	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/19/16 15:14	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/19/16 15:14	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		03/19/16 15:14	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/19/16 15:14	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/19/16 15:14	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/19/16 15:14	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/19/16 15:14	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/19/16 15:14	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/19/16 15:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/19/16 15:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/19/16 15:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/19/16 15:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/19/16 15:14	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/19/16 15:14	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/19/16 15:14	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/19/16 15:14	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/19/16 15:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/19/16 15:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/19/16 15:14	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/19/16 15:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/19/16 15:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/19/16 15:14	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/19/16 15:14	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/19/16 15:14	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/19/16 15:14	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/19/16 15:14	100-41-4	
4-Ethyltoluene	ND	ug/m3	2.5	0.19	1		03/19/16 15:14	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/19/16 15:14	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		03/19/16 15:14	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/19/16 15:14	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/19/16 15:14	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/19/16 15:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/19/16 15:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/19/16 15:14	1634-04-4	
Naphthalene	ND	ug/m3	107	0.30	1		03/19/16 15:14	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/19/16 15:14	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/19/16 15:14	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/19/16 15:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/19/16 15:14	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-1 Can Cert **Lab ID: 10343713011** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/19/16 15:14	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/19/16 15:14	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/19/16 15:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	151	0.91	1		03/19/16 15:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/19/16 15:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/19/16 15:14	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/19/16 15:14	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/19/16 15:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/19/16 15:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.5	0.12	1		03/19/16 15:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.5	0.18	1		03/19/16 15:14	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/19/16 15:14	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/19/16 15:14	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/19/16 15:14	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/19/16 15:14	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-2 Can Cert **Lab ID: 10343713012** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		03/14/16 11:04	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		03/14/16 11:04	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		03/14/16 11:04	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		03/14/16 11:04	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		03/14/16 11:04	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		03/14/16 11:04	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		03/14/16 11:04	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		03/14/16 11:04	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		03/14/16 11:04	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		03/14/16 11:04	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		03/14/16 11:04	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		03/14/16 11:04	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		03/14/16 11:04	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		03/14/16 11:04	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		03/14/16 11:04	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		03/14/16 11:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		03/14/16 11:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/14/16 11:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/14/16 11:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		03/14/16 11:04	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		03/14/16 11:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		03/14/16 11:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		03/14/16 11:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		03/14/16 11:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/14/16 11:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/14/16 11:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		03/14/16 11:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/14/16 11:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/14/16 11:04	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		03/14/16 11:04	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		03/14/16 11:04	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		03/14/16 11:04	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		03/14/16 11:04	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		03/14/16 11:04	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		03/14/16 11:04	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		03/14/16 11:04	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		03/14/16 11:04	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		03/14/16 11:04	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		03/14/16 11:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		03/14/16 11:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		03/14/16 11:04	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		03/14/16 11:04	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		03/14/16 11:04	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		03/14/16 11:04	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		03/14/16 11:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		03/14/16 11:04	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: B-SSV-2 Can Cert **Lab ID: 10343713012** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		03/14/16 11:04	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		03/14/16 11:04	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		03/14/16 11:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		03/14/16 11:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		03/14/16 11:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		03/14/16 11:04	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		03/14/16 11:04	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		03/14/16 11:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		03/14/16 11:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		03/14/16 11:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		03/14/16 11:04	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.045	1		03/14/16 11:04	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		03/14/16 11:04	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		03/14/16 11:04	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		03/14/16 11:04	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-29 Can Cert **Lab ID: 10343713013** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/20/16 14:49	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		03/20/16 14:49	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/20/16 14:49	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/20/16 14:49	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/20/16 14:49	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/20/16 14:49	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/20/16 14:49	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/20/16 14:49	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/20/16 14:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		03/20/16 14:49	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/20/16 14:49	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/20/16 14:49	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/20/16 14:49	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/20/16 14:49	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/20/16 14:49	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/20/16 14:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/20/16 14:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/20/16 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/20/16 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/20/16 14:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/20/16 14:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/20/16 14:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/20/16 14:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/20/16 14:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/20/16 14:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/20/16 14:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/20/16 14:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/20/16 14:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/20/16 14:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/20/16 14:49	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/20/16 14:49	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/20/16 14:49	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/20/16 14:49	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/20/16 14:49	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/20/16 14:49	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/20/16 14:49	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/20/16 14:49	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/20/16 14:49	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/20/16 14:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/20/16 14:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/20/16 14:49	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/20/16 14:49	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/20/16 14:49	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/20/16 14:49	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/20/16 14:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/20/16 14:49	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-29 Can Cert **Lab ID: 10343713013** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/20/16 14:49	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/20/16 14:49	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/20/16 14:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/20/16 14:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/20/16 14:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/20/16 14:49	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/20/16 14:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/20/16 14:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/20/16 14:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/20/16 14:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/20/16 14:49	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/20/16 14:49	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/20/16 14:49	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/20/16 14:49	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/20/16 14:49	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-30 Can Cert **Lab ID: 10343713014** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		03/20/16 17:43	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		03/20/16 17:43	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.53	1		03/20/16 17:43	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		03/20/16 17:43	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		03/20/16 17:43	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		03/20/16 17:43	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		03/20/16 17:43	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		03/20/16 17:43	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		03/20/16 17:43	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		03/20/16 17:43	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		03/20/16 17:43	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		03/20/16 17:43	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		03/20/16 17:43	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		03/20/16 17:43	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		03/20/16 17:43	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		03/20/16 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		03/20/16 17:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/20/16 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/20/16 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		03/20/16 17:43	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		03/20/16 17:43	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		03/20/16 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		03/20/16 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		03/20/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/20/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/20/16 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		03/20/16 17:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/20/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/20/16 17:43	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		03/20/16 17:43	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		03/20/16 17:43	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		03/20/16 17:43	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		03/20/16 17:43	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		03/20/16 17:43	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		03/20/16 17:43	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		03/20/16 17:43	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		03/20/16 17:43	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		03/20/16 17:43	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		03/20/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		03/20/16 17:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		03/20/16 17:43	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		03/20/16 17:43	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		03/20/16 17:43	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		03/20/16 17:43	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		03/20/16 17:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		03/20/16 17:43	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-30 Can Cert **Lab ID: 10343713014** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		03/20/16 17:43	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		03/20/16 17:43	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		03/20/16 17:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		03/20/16 17:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		03/20/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		03/20/16 17:43	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		03/20/16 17:43	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		03/20/16 17:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		03/20/16 17:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		03/20/16 17:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		03/20/16 17:43	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.045	1		03/20/16 17:43	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		03/20/16 17:43	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		03/20/16 17:43	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		03/20/16 17:43	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-31 Can Cert **Lab ID: 10343713015** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/23/16 10:51	67-64-1	
Benzene	ND	ug/m3	32.5	0.12	1		03/23/16 10:51	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/23/16 10:51	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/23/16 10:51	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/23/16 10:51	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/23/16 10:51	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/23/16 10:51	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/23/16 10:51	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/23/16 10:51	75-15-0	
Carbon tetrachloride	ND	ug/m3	63.9	0.19	1		03/23/16 10:51	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/23/16 10:51	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/23/16 10:51	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/23/16 10:51	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/23/16 10:51	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/23/16 10:51	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/23/16 10:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/23/16 10:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/23/16 10:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/23/16 10:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/23/16 10:51	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/23/16 10:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/23/16 10:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/23/16 10:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/23/16 10:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/23/16 10:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/23/16 10:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/23/16 10:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/23/16 10:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/23/16 10:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/23/16 10:51	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/23/16 10:51	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/23/16 10:51	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/23/16 10:51	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/23/16 10:51	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/23/16 10:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/23/16 10:51	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/23/16 10:51	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/23/16 10:51	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/23/16 10:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/23/16 10:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/23/16 10:51	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/23/16 10:51	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/23/16 10:51	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/23/16 10:51	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/23/16 10:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/23/16 10:51	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-31 Can Cert **Lab ID: 10343713015** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/23/16 10:51	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/23/16 10:51	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/23/16 10:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/23/16 10:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/23/16 10:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/23/16 10:51	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/23/16 10:51	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/23/16 10:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/23/16 10:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/23/16 10:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/23/16 10:51	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/23/16 10:51	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/23/16 10:51	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/23/16 10:51	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/23/16 10:51	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-32 Can Cert **Lab ID: 10343713016** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/22/16 20:24	67-64-1	
Benzene	ND	ug/m3	32.5	0.12	1		03/22/16 20:24	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/22/16 20:24	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/22/16 20:24	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/22/16 20:24	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/22/16 20:24	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/22/16 20:24	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/22/16 20:24	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/22/16 20:24	75-15-0	
Carbon tetrachloride	ND	ug/m3	63.9	0.19	1		03/22/16 20:24	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/22/16 20:24	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/22/16 20:24	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/22/16 20:24	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/22/16 20:24	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/22/16 20:24	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/22/16 20:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/22/16 20:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/22/16 20:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/22/16 20:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/22/16 20:24	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/22/16 20:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/22/16 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/22/16 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/22/16 20:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/22/16 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/22/16 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/22/16 20:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/22/16 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/22/16 20:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/22/16 20:24	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/22/16 20:24	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/22/16 20:24	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/22/16 20:24	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/22/16 20:24	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/22/16 20:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/22/16 20:24	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/22/16 20:24	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/22/16 20:24	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/22/16 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/22/16 20:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/22/16 20:24	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/22/16 20:24	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/22/16 20:24	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/22/16 20:24	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/22/16 20:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/22/16 20:24	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-32 Can Cert **Lab ID: 10343713016** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/22/16 20:24	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/22/16 20:24	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/22/16 20:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/22/16 20:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/22/16 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/22/16 20:24	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/22/16 20:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/22/16 20:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/22/16 20:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/22/16 20:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/22/16 20:24	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/22/16 20:24	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/22/16 20:24	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/22/16 20:24	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/22/16 20:24	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-33 Can Cert **Lab ID: 10343713017** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/23/16 20:59	67-64-1	
Benzene	ND	ug/m3	32.5	0.12	1		03/23/16 20:59	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/23/16 20:59	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/23/16 20:59	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/23/16 20:59	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/23/16 20:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/23/16 20:59	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/23/16 20:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/23/16 20:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	63.9	0.19	1		03/23/16 20:59	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/23/16 20:59	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/23/16 20:59	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/23/16 20:59	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/23/16 20:59	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/23/16 20:59	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/23/16 20:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/23/16 20:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/23/16 20:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/23/16 20:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/23/16 20:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/23/16 20:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/23/16 20:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/23/16 20:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/23/16 20:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/23/16 20:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/23/16 20:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/23/16 20:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/23/16 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/23/16 20:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/23/16 20:59	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/23/16 20:59	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/23/16 20:59	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/23/16 20:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/23/16 20:59	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/23/16 20:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/23/16 20:59	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/23/16 20:59	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/23/16 20:59	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/23/16 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/23/16 20:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/23/16 20:59	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/23/16 20:59	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/23/16 20:59	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/23/16 20:59	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/23/16 20:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/23/16 20:59	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-33 Can Cert **Lab ID: 10343713017** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/23/16 20:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/23/16 20:59	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/23/16 20:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/23/16 20:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/23/16 20:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/23/16 20:59	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/23/16 20:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/23/16 20:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/23/16 20:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/23/16 20:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/23/16 20:59	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/23/16 20:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/23/16 20:59	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/23/16 20:59	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/23/16 20:59	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-34 Can Cert **Lab ID: 10343713018** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		03/15/16 09:30	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		03/15/16 09:30	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		03/15/16 09:30	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		03/15/16 09:30	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		03/15/16 09:30	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		03/15/16 09:30	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		03/15/16 09:30	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		03/15/16 09:30	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		03/15/16 09:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		03/15/16 09:30	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		03/15/16 09:30	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		03/15/16 09:30	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		03/15/16 09:30	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		03/15/16 09:30	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		03/15/16 09:30	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		03/15/16 09:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		03/15/16 09:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/15/16 09:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/15/16 09:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		03/15/16 09:30	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		03/15/16 09:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		03/15/16 09:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		03/15/16 09:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		03/15/16 09:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/15/16 09:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/15/16 09:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		03/15/16 09:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/15/16 09:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.46	1		03/15/16 09:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		03/15/16 09:30	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		03/15/16 09:30	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		03/15/16 09:30	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		03/15/16 09:30	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		03/15/16 09:30	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		03/15/16 09:30	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		03/15/16 09:30	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		03/15/16 09:30	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		03/15/16 09:30	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		03/15/16 09:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		03/15/16 09:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		03/15/16 09:30	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		03/15/16 09:30	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		03/15/16 09:30	67-63-0	
Propylene	ND	ug/m3	0.35	0.023	1		03/15/16 09:30	115-07-1	
Styrene	ND	ug/m3	0.87	0.43	1		03/15/16 09:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.35	1		03/15/16 09:30	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-34 Can Cert **Lab ID: 10343713018** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		03/15/16 09:30	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.030	1		03/15/16 09:30	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		03/15/16 09:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		03/15/16 09:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		03/15/16 09:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		03/15/16 09:30	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		03/15/16 09:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		03/15/16 09:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		03/15/16 09:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.052	1		03/15/16 09:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		03/15/16 09:30	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.045	1		03/15/16 09:30	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		03/15/16 09:30	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		03/15/16 09:30	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		03/15/16 09:30	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-35 Can Cert **Lab ID: 10343713019** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/19/16 15:41	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		03/19/16 15:41	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	0.17	1		03/19/16 15:41	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/19/16 15:41	75-27-4	
Bromoform	ND	ug/m3	5.3	0.90	1		03/19/16 15:41	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/19/16 15:41	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/19/16 15:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/19/16 15:41	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/19/16 15:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.19	1		03/19/16 15:41	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/19/16 15:41	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/19/16 15:41	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/19/16 15:41	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/19/16 15:41	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/19/16 15:41	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/19/16 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/19/16 15:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/19/16 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/19/16 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/19/16 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/19/16 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/19/16 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/19/16 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/19/16 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/19/16 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/19/16 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/19/16 15:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/19/16 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/19/16 15:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/19/16 15:41	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/19/16 15:41	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/19/16 15:41	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/19/16 15:41	100-41-4	
4-Ethyltoluene	ND	ug/m3	2.5	0.19	1		03/19/16 15:41	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/19/16 15:41	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		03/19/16 15:41	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/19/16 15:41	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/19/16 15:41	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/19/16 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/19/16 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/19/16 15:41	1634-04-4	
Naphthalene	ND	ug/m3	107	0.30	1		03/19/16 15:41	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/19/16 15:41	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/19/16 15:41	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/19/16 15:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/19/16 15:41	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-35 Can Cert **Lab ID: 10343713019** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/19/16 15:41	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/19/16 15:41	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/19/16 15:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	151	0.91	1		03/19/16 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/19/16 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/19/16 15:41	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/19/16 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/19/16 15:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/19/16 15:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.5	0.12	1		03/19/16 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.5	0.18	1		03/19/16 15:41	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/19/16 15:41	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/19/16 15:41	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/19/16 15:41	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/19/16 15:41	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-36 Can Cert **Lab ID: 10343713020** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/22/16 19:27	67-64-1	
Benzene	ND	ug/m3	32.5	0.12	1		03/22/16 19:27	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/22/16 19:27	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/22/16 19:27	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/22/16 19:27	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/22/16 19:27	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/22/16 19:27	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/22/16 19:27	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/22/16 19:27	75-15-0	
Carbon tetrachloride	ND	ug/m3	63.9	0.19	1		03/22/16 19:27	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/22/16 19:27	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/22/16 19:27	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/22/16 19:27	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/22/16 19:27	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/22/16 19:27	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/22/16 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/22/16 19:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/22/16 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/22/16 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/22/16 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/22/16 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/22/16 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/22/16 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/22/16 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/22/16 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/22/16 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/22/16 19:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/22/16 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/22/16 19:27	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/22/16 19:27	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/22/16 19:27	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/22/16 19:27	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/22/16 19:27	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/22/16 19:27	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/22/16 19:27	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/22/16 19:27	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/22/16 19:27	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/22/16 19:27	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/22/16 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/22/16 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/22/16 19:27	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/22/16 19:27	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/22/16 19:27	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/22/16 19:27	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/22/16 19:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/22/16 19:27	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Sample: SSV-36 Can Cert **Lab ID: 10343713020** Collected: 04/01/16 00:00 Received: 04/05/16 10:16 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/22/16 19:27	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/22/16 19:27	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/22/16 19:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/22/16 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/22/16 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/22/16 19:27	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/22/16 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/22/16 19:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/22/16 19:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/22/16 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/22/16 19:27	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/22/16 19:27	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/22/16 19:27	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/22/16 19:27	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/22/16 19:27	95-47-6	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

QC Batch: AIR/25702 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10343713001, 10343713002, 10343713003, 10343713004, 10343713006, 10343713008, 10343713009

METHOD BLANK: 2231761 Matrix: Air
Associated Lab Samples: 10343713001, 10343713002, 10343713003, 10343713004, 10343713006, 10343713008, 10343713009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	04/14/16 11:36	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	04/14/16 11:36	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	04/14/16 11:36	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	04/14/16 11:36	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	04/14/16 11:36	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	04/14/16 11:36	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	0.91	04/14/16 11:36	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	04/14/16 11:36	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	04/14/16 11:36	
1,2-Dichlorobenzene	ug/m3	ND	1.2	0.51	04/14/16 11:36	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	04/14/16 11:36	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	04/14/16 11:36	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	04/14/16 11:36	
1,3-Butadiene	ug/m3	ND	0.45	0.18	04/14/16 11:36	
1,3-Dichlorobenzene	ug/m3	ND	3.1	0.53	04/14/16 11:36	
1,4-Dichlorobenzene	ug/m3	ND	3.1	0.50	04/14/16 11:36	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	04/14/16 11:36	
2-Hexanone	ug/m3	ND	4.2	0.41	04/14/16 11:36	
2-Propanol	ug/m3	ND	2.5	0.24	04/14/16 11:36	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	04/14/16 11:36	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	04/14/16 11:36	
Acetone	ug/m3	ND	2.4	0.83	04/14/16 11:36	
Benzene	ug/m3	ND	0.32	0.12	04/14/16 11:36	
Benzyl chloride	ug/m3	ND	2.6	0.17	04/14/16 11:36	
Bromodichloromethane	ug/m3	ND	1.4	0.19	04/14/16 11:36	
Bromoform	ug/m3	ND	5.3	0.90	04/14/16 11:36	
Bromomethane	ug/m3	ND	0.79	0.31	04/14/16 11:36	
Carbon disulfide	ug/m3	ND	0.63	0.10	04/14/16 11:36	
Carbon tetrachloride	ug/m3	ND	1.3	0.19	04/14/16 11:36	
Chlorobenzene	ug/m3	ND	0.94	0.13	04/14/16 11:36	
Chloroethane	ug/m3	ND	0.54	0.19	04/14/16 11:36	
Chloroform	ug/m3	ND	0.50	0.19	04/14/16 11:36	
Chloromethane	ug/m3	ND	0.42	0.11	04/14/16 11:36	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	04/14/16 11:36	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	04/14/16 11:36	
Cyclohexane	ug/m3	ND	0.70	0.32	04/14/16 11:36	
Dibromochloromethane	ug/m3	ND	8.7	0.86	04/14/16 11:36	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	04/14/16 11:36	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	04/14/16 11:36	
Ethanol	ug/m3	ND	0.96	0.26	04/14/16 11:36	
Ethyl acetate	ug/m3	ND	0.73	0.35	04/14/16 11:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

METHOD BLANK: 2231761 Matrix: Air
Associated Lab Samples: 10343713001, 10343713002, 10343713003, 10343713004, 10343713006, 10343713008, 10343713009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	0.42	04/14/16 11:36	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	0.65	04/14/16 11:36	
m&p-Xylene	ug/m3	ND	1.8	0.79	04/14/16 11:36	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	04/14/16 11:36	
Methylene Chloride	ug/m3	ND	3.5	0.54	04/14/16 11:36	
n-Heptane	ug/m3	ND	0.83	0.28	04/14/16 11:36	
n-Hexane	ug/m3	ND	0.72	0.36	04/14/16 11:36	
Naphthalene	ug/m3	ND	2.7	0.30	04/14/16 11:36	
o-Xylene	ug/m3	ND	2.2	0.35	04/14/16 11:36	
Propylene	ug/m3	ND	0.35	0.14	04/14/16 11:36	
Styrene	ug/m3	ND	2.2	0.19	04/14/16 11:36	
Tetrachloroethene	ug/m3	ND	0.69	0.28	04/14/16 11:36	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	04/14/16 11:36	
Toluene	ug/m3	ND	0.77	0.15	04/14/16 11:36	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	04/14/16 11:36	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	0.26	04/14/16 11:36	
Trichloroethene	ug/m3	ND	0.55	0.28	04/14/16 11:36	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	04/14/16 11:36	
Vinyl acetate	ug/m3	ND	0.72	0.33	04/14/16 11:36	
Vinyl chloride	ug/m3	ND	0.26	0.20	04/14/16 11:36	

LABORATORY CONTROL SAMPLE: 2231762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.5	118	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.9	112	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	65.0	117	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	88.3	113	66-131	
1,1-Dichloroethane	ug/m3	41.2	47.7	116	62-139	
1,1-Dichloroethene	ug/m3	40.3	47.1	117	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.5	83.0	110	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.7	115	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.5	120	63-150	
1,2-Dichlorobenzene	ug/m3	61.2	69.7	114	57-141	
1,2-Dichloroethane	ug/m3	41.2	48.8	119	61-144	
1,2-Dichloropropane	ug/m3	47	54.7	116	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	59.4	119	54-147	
1,3-Butadiene	ug/m3	22.5	26.0	116	61-140	
1,3-Dichlorobenzene	ug/m3	61.2	69.4	114	51-150	
1,4-Dichlorobenzene	ug/m3	61.2	71.2	116	57-143	
2-Butanone (MEK)	ug/m3	150	193	129	66-144	
2-Hexanone	ug/m3	208	257	123	63-147	
2-Propanol	ug/m3	125	148	118	54-146	
4-Ethyltoluene	ug/m3	50	57.2	114	56-150	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

LABORATORY CONTROL SAMPLE: 2231762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	208	263	126	58-150	
Acetone	ug/m3	121	114	95	46-140	
Benzene	ug/m3	32.5	40.1	123	62-141	
Benzyl chloride	ug/m3	52.5	59.3	113	66-138	
Bromodichloromethane	ug/m3	68.2	84.4	124	58-149	
Bromoform	ug/m3	105	122	116	61-150	
Bromomethane	ug/m3	39.5	44.6	113	58-136	
Carbon disulfide	ug/m3	31.7	33.3	105	59-135	
Carbon tetrachloride	ug/m3	64	69.4	108	60-149	
Chlorobenzene	ug/m3	46.8	59.5	127	60-150	
Chloroethane	ug/m3	26.8	30.2	113	61-136	
Chloroform	ug/m3	49.7	58.5	118	65-138	
Chloromethane	ug/m3	21	25.7	122	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	47.9	119	65-139	
cis-1,3-Dichloropropene	ug/m3	46.2	58.2	126	61-149	
Cyclohexane	ug/m3	35	44.2	126	64-134	
Dibromochloromethane	ug/m3	86.6	102	118	59-150	
Dichlorodifluoromethane	ug/m3	50.3	57.2	114	63-134	
Dichlorotetrafluoroethane	ug/m3	71.1	85.9	121	62-134	
Ethanol	ug/m3	95.8	110	115	50-144	
Ethyl acetate	ug/m3	36.6	43.3	118	55-146	
Ethylbenzene	ug/m3	44.2	53.5	121	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	140	129	42-150	
m&p-Xylene	ug/m3	88.3	106	120	59-146	
Methyl-tert-butyl ether	ug/m3	183	219	120	64-135	
Methylene Chloride	ug/m3	177	189	107	64-128	
n-Heptane	ug/m3	41.7	45.8	110	64-140	
n-Hexane	ug/m3	35.8	35.0	98	50-138	
Naphthalene	ug/m3	53.3	58.2	109	46-146	
o-Xylene	ug/m3	44.2	47.8	108	54-149	
Propylene	ug/m3	17.5	19.7	113	58-135	
Styrene	ug/m3	43.3	50.7	117	54-150	
Tetrachloroethene	ug/m3	69	86.8	126	60-142	
Tetrahydrofuran	ug/m3	30	37.3	124	56-143	
Toluene	ug/m3	38.3	45.1	118	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	50.7	126	67-137	
trans-1,3-Dichloropropene	ug/m3	46.2	49.5	107	59-145	
Trichloroethene	ug/m3	54.6	62.8	115	60-144	
Trichlorofluoromethane	ug/m3	57.1	62.6	109	59-134	
Vinyl acetate	ug/m3	35.8	43.7	122	55-143	
Vinyl chloride	ug/m3	26	30.5	117	63-135	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

QC Batch: AIR/25717 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10343713005, 10343713007, 10343713010

METHOD BLANK: 2234267 Matrix: Air
Associated Lab Samples: 10343713005, 10343713007, 10343713010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	04/17/16 12:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	04/17/16 12:46	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	04/17/16 12:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	04/17/16 12:46	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	04/17/16 12:46	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	04/17/16 12:46	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	0.91	04/17/16 12:46	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	04/17/16 12:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	04/17/16 12:46	
1,2-Dichlorobenzene	ug/m3	ND	3.1	0.51	04/17/16 12:46	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	04/17/16 12:46	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	04/17/16 12:46	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	04/17/16 12:46	
1,3-Butadiene	ug/m3	ND	0.45	0.18	04/17/16 12:46	
1,3-Dichlorobenzene	ug/m3	ND	3.1	0.53	04/17/16 12:46	
1,4-Dichlorobenzene	ug/m3	ND	3.1	0.50	04/17/16 12:46	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	04/17/16 12:46	
2-Hexanone	ug/m3	ND	4.2	0.41	04/17/16 12:46	
2-Propanol	ug/m3	ND	2.5	0.24	04/17/16 12:46	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	04/17/16 12:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	04/17/16 12:46	
Acetone	ug/m3	ND	2.4	0.83	04/17/16 12:46	
Benzene	ug/m3	ND	0.32	0.12	04/17/16 12:46	
Benzyl chloride	ug/m3	ND	2.6	0.17	04/17/16 12:46	
Bromodichloromethane	ug/m3	ND	1.4	0.19	04/17/16 12:46	
Bromoform	ug/m3	ND	2.1	0.90	04/17/16 12:46	
Bromomethane	ug/m3	ND	0.79	0.31	04/17/16 12:46	
Carbon disulfide	ug/m3	ND	0.63	0.10	04/17/16 12:46	
Carbon tetrachloride	ug/m3	ND	0.64	0.19	04/17/16 12:46	
Chlorobenzene	ug/m3	ND	0.94	0.13	04/17/16 12:46	
Chloroethane	ug/m3	ND	0.54	0.19	04/17/16 12:46	
Chloroform	ug/m3	ND	0.50	0.19	04/17/16 12:46	
Chloromethane	ug/m3	ND	0.42	0.11	04/17/16 12:46	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	04/17/16 12:46	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	04/17/16 12:46	
Cyclohexane	ug/m3	ND	0.70	0.32	04/17/16 12:46	
Dibromochloromethane	ug/m3	ND	1.7	0.86	04/17/16 12:46	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	04/17/16 12:46	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	04/17/16 12:46	
Ethanol	ug/m3	ND	0.96	0.26	04/17/16 12:46	
Ethyl acetate	ug/m3	ND	0.73	0.35	04/17/16 12:46	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

METHOD BLANK: 2234267 Matrix: Air
Associated Lab Samples: 10343713005, 10343713007, 10343713010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	0.42	04/17/16 12:46	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	0.65	04/17/16 12:46	
m&p-Xylene	ug/m3	ND	1.8	0.79	04/17/16 12:46	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	04/17/16 12:46	
Methylene Chloride	ug/m3	ND	3.5	0.54	04/17/16 12:46	
n-Heptane	ug/m3	ND	0.83	0.28	04/17/16 12:46	
n-Hexane	ug/m3	ND	0.72	0.36	04/17/16 12:46	
Naphthalene	ug/m3	ND	2.7	0.30	04/17/16 12:46	
o-Xylene	ug/m3	ND	0.88	0.35	04/17/16 12:46	
Propylene	ug/m3	ND	0.35	0.14	04/17/16 12:46	
Styrene	ug/m3	ND	0.87	0.19	04/17/16 12:46	
Tetrachloroethene	ug/m3	ND	0.69	0.28	04/17/16 12:46	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	04/17/16 12:46	
Toluene	ug/m3	ND	0.77	0.15	04/17/16 12:46	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	04/17/16 12:46	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	0.26	04/17/16 12:46	
Trichloroethene	ug/m3	ND	0.55	0.28	04/17/16 12:46	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	04/17/16 12:46	
Vinyl acetate	ug/m3	ND	0.72	0.33	04/17/16 12:46	
Vinyl chloride	ug/m3	ND	0.26	0.20	04/17/16 12:46	

LABORATORY CONTROL SAMPLE: 2234268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.4	114	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	85.1	122	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	65.9	119	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.7	110	66-131	
1,1-Dichloroethane	ug/m3	41.2	44.2	107	62-139	
1,1-Dichloroethene	ug/m3	40.3	45.9	114	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.5	54.9	73	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	50.4	101	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	94.2	121	63-150	
1,2-Dichlorobenzene	ug/m3	61.2	58.5	96	57-141	
1,2-Dichloroethane	ug/m3	41.2	49.6	120	61-144	
1,2-Dichloropropane	ug/m3	47	53.2	113	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.3	103	54-147	
1,3-Butadiene	ug/m3	22.5	25.8	115	61-140	
1,3-Dichlorobenzene	ug/m3	61.2	60.3	99	51-150	
1,4-Dichlorobenzene	ug/m3	61.2	58.8	96	57-143	
2-Butanone (MEK)	ug/m3	150	170	113	66-144	
2-Hexanone	ug/m3	208	260	125	63-147	
2-Propanol	ug/m3	125	152	122	54-146	
4-Ethyltoluene	ug/m3	50	52.0	104	56-150	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

LABORATORY CONTROL SAMPLE: 2234268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	208	254	122	58-150	
Acetone	ug/m3	121	118	98	46-140	
Benzene	ug/m3	32.5	37.3	115	62-141	
Benzyl chloride	ug/m3	52.5	48.1	92	66-138	
Bromodichloromethane	ug/m3	68.2	82.1	121	58-149	
Bromoform	ug/m3	105	111	105	61-150	
Bromomethane	ug/m3	39.5	41.4	105	58-136	
Carbon disulfide	ug/m3	31.7	30.7	97	59-135	
Carbon tetrachloride	ug/m3	64	72.7	114	60-149	
Chlorobenzene	ug/m3	46.8	56.6	121	60-150	
Chloroethane	ug/m3	26.8	28.7	107	61-136	
Chloroform	ug/m3	49.7	54.8	110	65-138	
Chloromethane	ug/m3	21	23.1	110	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	45.8	114	65-139	
cis-1,3-Dichloropropene	ug/m3	46.2	56.7	123	61-149	
Cyclohexane	ug/m3	35	39.0	111	64-134	
Dibromochloromethane	ug/m3	86.6	112	129	59-150	
Dichlorodifluoromethane	ug/m3	50.3	56.6	112	63-134	
Dichlorotetrafluoroethane	ug/m3	71.1	78.8	111	62-134	
Ethanol	ug/m3	95.8	105	110	50-144	
Ethyl acetate	ug/m3	36.6	39.3	107	55-146	
Ethylbenzene	ug/m3	44.2	56.0	127	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	92.1	85	42-150	
m&p-Xylene	ug/m3	88.3	113	128	59-146	
Methyl-tert-butyl ether	ug/m3	183	184	100	64-135	
Methylene Chloride	ug/m3	177	176	100	64-128	
n-Heptane	ug/m3	41.7	46.2	111	64-140	
n-Hexane	ug/m3	35.8	39.4	110	50-138	
Naphthalene	ug/m3	53.3	37.6	70	46-146	
o-Xylene	ug/m3	44.2	56.8	129	54-149	
Propylene	ug/m3	17.5	19.0	109	58-135	
Styrene	ug/m3	43.3	44.6	103	54-150	
Tetrachloroethene	ug/m3	69	81.9	119	60-142	
Tetrahydrofuran	ug/m3	30	33.0	110	56-143	
Toluene	ug/m3	38.3	46.5	121	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	42.1	104	67-137	
trans-1,3-Dichloropropene	ug/m3	46.2	46.9	102	59-145	
Trichloroethene	ug/m3	54.6	63.8	117	60-144	
Trichlorofluoromethane	ug/m3	57.1	61.7	108	59-134	
Vinyl acetate	ug/m3	35.8	41.3	115	55-143	
Vinyl chloride	ug/m3	26	28.1	108	63-135	

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QUALIFIERS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10343713001

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10343713002

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

[2] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Sample: 10343713003

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

[2] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Sample: 10343713004

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10343713005

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

[2] Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

Sample: 10343713006

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

[2] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Sample: 10343713007

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

SAMPLE QUALIFIERS

Sample: 10343713007

[2] Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

Sample: 10343713008

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10343713009

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10343713010

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

[2] Initial analysis occurred prior to the recommended MPCA Guidance Document 4-01a 14 day holding time but was not reportable due to QC failure. Analysis occurred within 30 days of collection, the EPA method TO-15 recommended holding time.

ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

IU The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10343713

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10343713001	**B-SSV-1**	TO-15	AIR/25702		
10343713002	**B-SSV-2**	TO-15	AIR/25702		
10343713003	**SSV-29**	TO-15	AIR/25702		
10343713004	**SSV-30**	TO-15	AIR/25702		
10343713005	**SSV-31**	TO-15	AIR/25717		
10343713006	**SSV-32**	TO-15	AIR/25702		
10343713007	**SSV-33**	TO-15	AIR/25717		
10343713008	**SSV-34**	TO-15	AIR/25702		
10343713009	**SSV-35**	TO-15	AIR/25702		
10343713010	**SSV-36**	TO-15	AIR/25717		
10343713011	**B-SSV-1 Can Cert**	TO-15	AIR/25660		
10343713012	**B-SSV-2 Can Cert**	TO-15	AIR/25660		
10343713013	**SSV-29 Can Cert**	TO-15	AIR/25660		
10343713014	**SSV-30 Can Cert**	TO-15	AIR/25660		
10343713015	**SSV-31 Can Cert**	TO-15	AIR/25660		
10343713016	**SSV-32 Can Cert**	TO-15	AIR/25660		
10343713017	**SSV-33 Can Cert**	TO-15	AIR/25660		
10343713018	**SSV-34 Can Cert**	TO-15	AIR/25660		
10343713019	**SSV-35 Can Cert**	TO-15	AIR/25660		
10343713020	**SSV-36 Can Cert**	TO-15	AIR/25660		

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10343713

Page: 1 of 1

Section A Required Client Information:

Company: AECOM
Address: 800 LaSalle Ave Suite 500 Minneapolis, MN 55402
Email To: tony.coryell@aecom.com
Phone: 612-376-2000 Fax: -
Requested Due Date/TAT: std

Section B Required Project Information:

Report To: Tony Coryell
Copy To: benjamin.klaus@aecom.com
Purchase Order No.:
Project Name: SLP Solvent Plume
Project Number: 60482513

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carol Davy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State _____

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other____

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

Section D Required Client Information

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite End DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	B-SSV-1	1LC		~~4-1-16~~	0907	4-1-16	957	-30	-2	0621											001 011
2	B-SSV-2			4-1-16	907		949	-28	-2	1522											002 012
3	SSV-29				1430		1509	-27	-3	0715											003 013
4	SSV-30				1329		1419	-24	-1	0160											004 014
5	SSV-31				1330		1420	-25	-1	0257											005 015
6	SSV-32				1456		1536	-27	-3	0637											006 016
7	SSV-33				1501		1540	-27	-3	1501											007 017
8	SSV-34				1330		1420	-27	0	1647											008 018
9	SSV-35				1333		1422	-29	-1	0206											009 019
10	SSV-36				1430		1510	-27	-2	0200											010 020
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ben Klaus / AECOM	4-5-16	10:16	[signature]	4-5-16	10:16

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Klaus

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4-4-16

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10343713

10343713

Courier: ☐ Fed Ex ☐ UPS ☐ Speedee ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): K **Corrected Temp (°C):** K **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** K **Date & Initials of Person Examining Contents:** KH 4/5/16

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
SSV-1	0621	0704			
" 2	1522	0466			
" 29	0715	0794			
" 30	0160	1112			
" 31	0757	1149			
" 32	0637	0970			
" 33	0171	0979			
" 34	1647	0458			
" 35	0206	0896			
" 36	0700	0913			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carol Doug **Date:** 4/6/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10521.D
Report Date: 15-Apr-2016 14:33

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713006
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 19:54

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.302	128	J
2.	111-65-9	Octane	6.382	2.21	NJ
3.		Unknown	6.883	8.08	J
4.		Unknown	9.771	28.7	J
5.		Unknown	11.890	695	J
6.		Unknown	12.327	19.2	J
7.	55429-85-1	Benzeneethanamine, N-[(pent	12.385	3.46	NJ
8.		Unknown	12.893	6.36	J
9.	95-50-1	Benzene, 1,2-dichloro-	13.282	17.1	NJ
10.		Unknown	13.713	6.84	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10521.D
Report Date: 15-Apr-2016 14:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10521.D
Lab Smp Id: 10343713006
Inj Date : 14-APR-2016 19:54
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 15-Apr-2016 13:09 nkoller Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 21
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

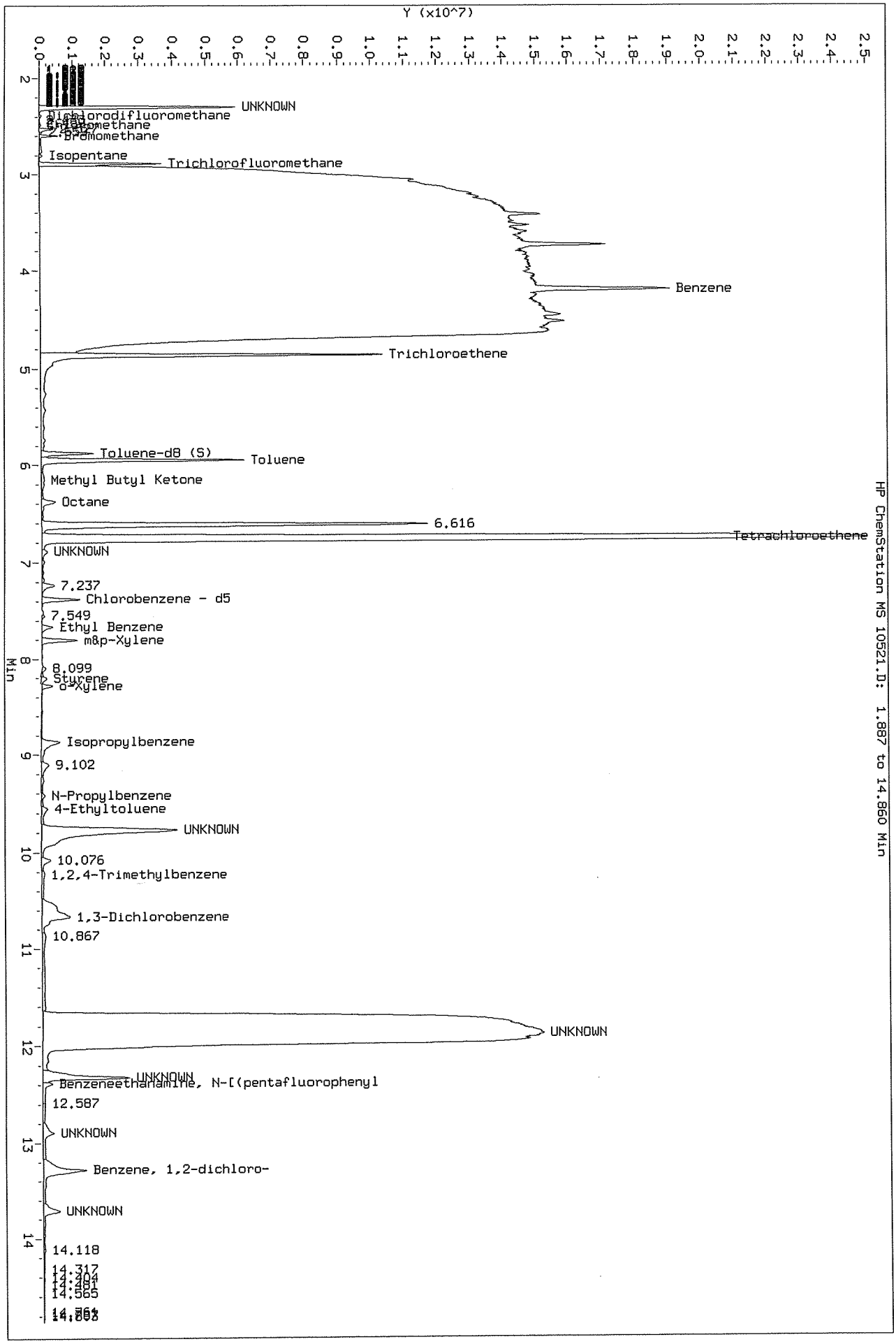
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.404	96100	0.930
58 Methyl Butyl Ketone	6.118	969534	1.021
61 Tetrachloroethene	6.761	90536149	433.125
72 4-Ethyltoluene	9.584	1003070	1.016
76 1,3-Dichlorobenzene	10.565	7456996	13.127

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.302	9172939	88.7330494	128	0		0	3
Octane				CAS #: 111-65-9			
6.382	1459505	1.53771969	2.21	87	NBS75K.l	3084	58
Unknown				CAS #:			
6.883	1173322	5.61317330	8.08	0		0	61

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10521.D
Report Date: 15-Apr-2016 14:33

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
9.771	19675414	19.9371684	28.7	0		0	72
Unknown				CAS #:			
11.890	2.742e+008	482.706083	695	0		0	76
Unknown				CAS #:			
12.327	7574674	13.3344441	19.2	0		0	76
Benzeneethanamine, N-[(pentafluorophenyl				CAS #:	55429-85-1		
12.385	1364996	2.40293723	3.46	78	NBS75K.l	74573	76
Unknown				CAS #:			
12.893	2509751	4.41816144	6.36	0		0	76
Benzene, 1,2-dichloro-				CAS #:	95-50-1		
13.282	6733367	11.8534080	17.1	92	NBS75K.l	66413	76
Unknown				CAS #:			
13.713	2699666	4.75248708	6.84	0		0	76

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10521.D
Injection Date: 14-APR-2016 19:54
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10521.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10516.D
Report Date: 15-Apr-2016 10:45

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713001
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 17:36

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.308	112	J
2.		Unknown	2.540	0.707	J
3.		Unknown	2.601	62.4	J
4.	107-46-0	Disiloxane, hexamethyl-	4.472	1.54	NJ
5.		Unknown	6.379	2.41	J
6.	541-05-9	Cyclotrisiloxane, hexamethy	6.600	22.9	NJ
7.		Unknown	7.224	0.942	J
8.	1120-21-4	Undecane	10.073	1.75	NJ
9.		Unknown	12.356	7.14	J
10.		Unknown	14.025	1.31	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10516.D
Report Date: 15-Apr-2016 10:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10516.D
Lab Smp Id: 10343713001
Inj Date : 14-APR-2016 17:36
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 14-Apr-2016 12:06 10air7.i Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 16
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

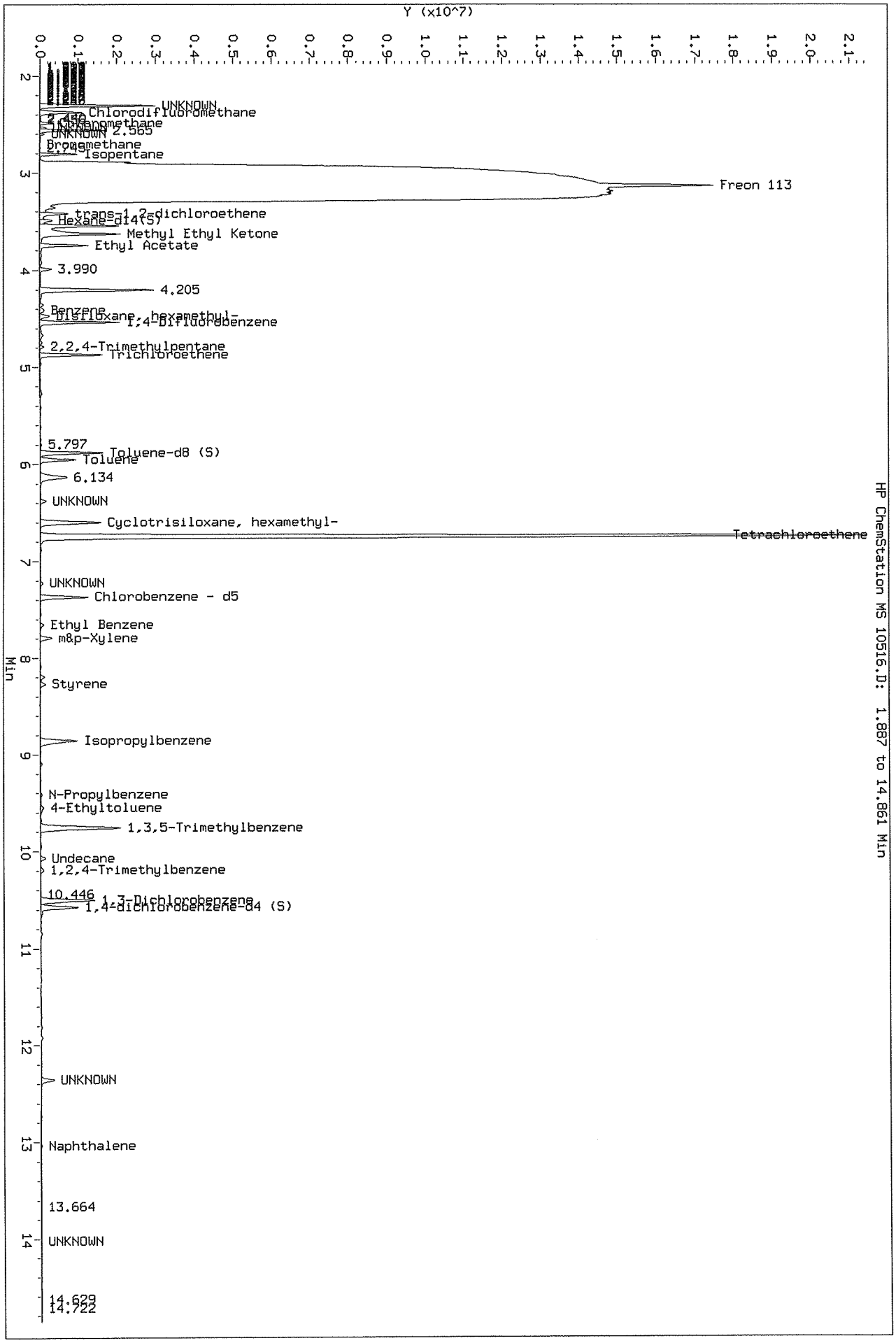
	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.379	1715750	35.565
5	Chloromethane	2.482	372354	1.069
8	Bromomethane	2.671	953	0.249
39	Benzene	4.401	436502	1.079
61	Tetrachloroethene	6.748	41363017	218.114
* 62	Chlorobenzene - d5	7.369	2219751	10.000
75	1,2,4-Trimethylbenzene	10.192	231500	1.248
86	Naphthalene	13.218	145216	0.855

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.308	4021513	83.3606844	112	0		0	1

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10516.D
Report Date: 15-Apr-2016 10:45

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Unknown				CAS #:			
2.540	183898	0.52795106	0.707	0		0	5
Unknown				CAS #:			
2.601	178074	46.5709876	62.4	0		0	8
Disiloxane, hexamethyl-				CAS #:	107-46-0		
4.472	463671	1.14602618	1.54	90	NBS75K.l	12788	39
Unknown				CAS #:			
6.379	340415	1.79506593	2.41	0		0	61
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
6.600	3236894	17.0687075	22.9	80	NBS75K.l	27918	61
Unknown				CAS #:			
7.224	156080	0.70313969	0.942	0		0	62
Undecane				CAS #:	1120-21-4		
10.073	242605	1.30736604	1.75	78	NBS75K.l	67318	75
Unknown				CAS #:			
12.356	904778	5.32903237	7.14	0		0	86
Unknown				CAS #:			
14.025	166504	0.98068867	1.31	0		0	86

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10516.D
Injection Date: 14-APR-2016 17:36
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10516.D: 1.887 to 14.861 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10517.D
Report Date: 15-Apr-2016 11:19

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713002
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 18:03

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.298	101	J
2.	111-65-9	Octane	6.366	16.5	NJ
3.	541-05-9	Cyclotrisiloxane, hexamethy	6.594	122	NJ
4.		Unknown	6.870	10.7	J
5.		Unknown	7.224	7.67	J
6.		Unknown	8.086	1.69	J
7.		Unknown	9.764	33.2	J
8.	124-18-5	Decane	10.070	3.64	NJ
9.		Unknown	11.870	2.15	J
10.		Unknown	12.385	12.1	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10517.D
Report Date: 15-Apr-2016 11:19

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10517.D
Lab Smp Id: 10343713002
Inj Date : 14-APR-2016 18:03
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 14-Apr-2016 12:06 10air7.i Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 17
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

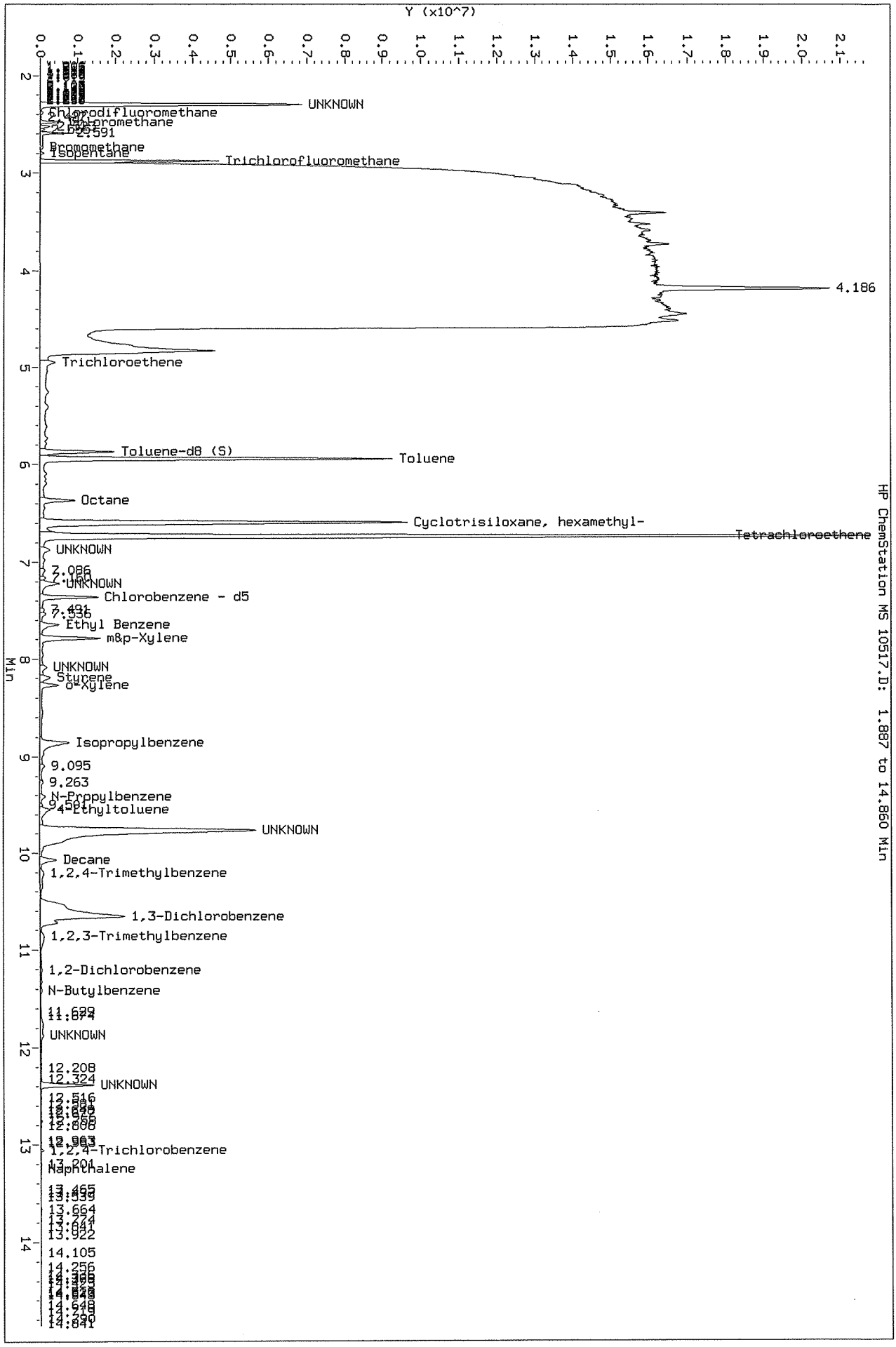
	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.372	158666	0.982
61	Tetrachloroethene	6.735	45254029	184.854
* 62	Chlorobenzene - d5	7.362	3236550	10.000
67	Styrene	8.205	806922	1.323
72	4-Ethyltoluene	9.581	1371472	1.344
75	1,2,4-Trimethylbenzene	10.218	1131643	2.342
84	N-Butylbenzene	11.314	305323	0.317
85	1,2,4-Trichlorobenzene	13.127	167204	0.536

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.298	11725271	72.5340389	101	0		0	1

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10517.D
Report Date: 15-Apr-2016 11:19

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUANT QUAL	LIBRARY	LIB ENTRY	CFND #
Octane				CAS #: 111-65-9			
6.366	2903749	11.8612335	16.5	90	NBS75K.l	64209	61
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.594	21401315	87.4200799	122	91	NBS75K.l	70586	61
Unknown				CAS #:			
6.870	1892614	7.73095054	10.7	0		0	61
Unknown				CAS #:			
7.224	1785468	5.51657736	7.67	0		0	62
Unknown				CAS #:			
8.086	739797	1.21320823	1.69	0		0	67
Unknown				CAS #:			
9.764	24334952	23.8534926	33.2	0		0	72
Decane				CAS #: 124-18-5			
10.070	1265311	2.61833701	3.64	91	NBS75K.l	66208	75
Unknown				CAS #:			
11.870	1493124	1.54979469	2.15	0		0	84
Unknown				CAS #:			
12.385	2725756	8.73308995	12.1	0		0	85

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10517.D
Injection Date: 14-APR-2016 18:03
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10517.D: 1.887 to 14.860 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10518.D
Report Date: 15-Apr-2016 12:03

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713003
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 18:30

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.308	159	J
2.	75-07-0	Acetaldehyde	2.533	1.06	NJ
3.	111-65-9	Octane	6.372	13.0	NJ
4.		Unknown	6.877	4.68	J
5.		Unknown	6.983	3.70	J
6.		Unknown	7.224	7.52	J
7.	124-18-5	Decane	10.070	5.29	NJ
8.		Unknown	11.697	14.3	J
9.		Unknown	12.086	2.18	J
10.		Unknown	12.385	2.93	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10518.D
Report Date: 15-Apr-2016 12:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10518.D
Lab Smp Id: 10343713003
Inj Date : 14-APR-2016 18:30
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 14-Apr-2016 12:06 10air7.i Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 18
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

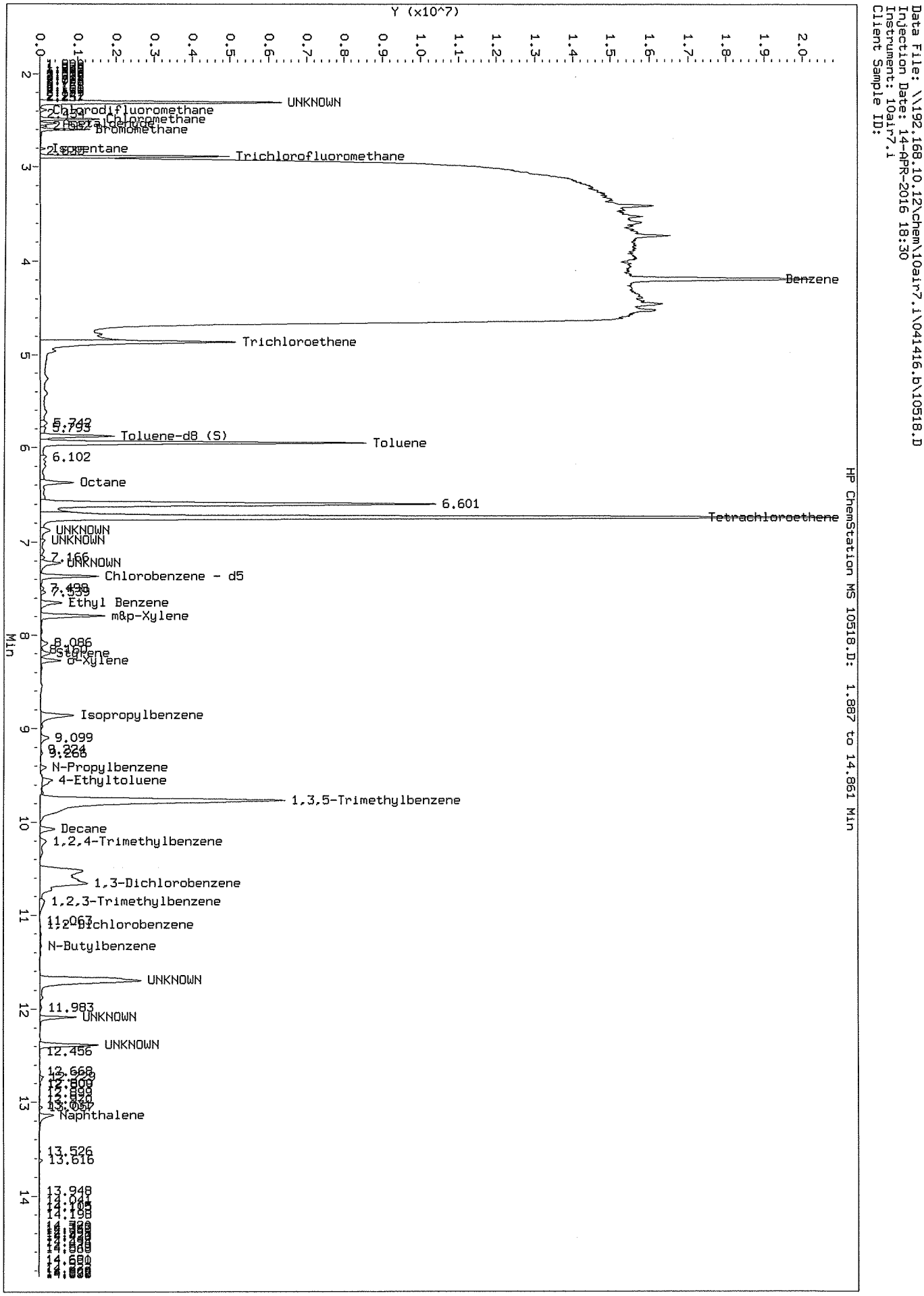
Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.382	267836	2.891
5	Chloromethane	2.485	1733046	2.200
61	Tetrachloroethene	6.742	46855314	165.908
* 62	Chlorobenzene - d5	7.369	2845934	10.000
75	1,2,4-Trimethylbenzene	10.205	960814	3.796
84	N-Butylbenzene	11.298	317417	0.302
86	Naphthalene	13.253	1198210	0.821

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.308	10236288	110.499578	159	0		0	1
Acetaldehyde					CAS #: 75-07-0		
2.533	581116	0.73772880	1.06	83	NBS75K.l	36	5

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10518.D
Report Date: 15-Apr-2016 12:03

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Octane				CAS #: 111-65-9			
6.372	2556331	9.05162578	13.0	87	NBS75K.l	64207	61
Unknown				CAS #:			
6.877	916995	3.24695510	4.68	0		0	61
Unknown				CAS #:			
6.983	726092	2.57099490	3.70	0		0	61
Unknown				CAS #:			
7.224	1485525	5.21981498	7.52	0		0	62
Decane				CAS #: 124-18-5			
10.070	929523	3.67257472	5.29	90	NBS75K.l	66206	75
Unknown				CAS #:			
11.697	10437598	9.91531110	14.3	0		0	84
Unknown				CAS #:			
12.086	1594816	1.51501335	2.18	0		0	84
Unknown				CAS #:			
12.385	2970826	2.03455327	2.93	0		0	86


Data File: \\192.168.10.12\chem\10air7.i\041416.b\10518.D
Injection Date: 14-APR-2016 18:30
Instrument: 10air7.i
Client Sample ID:
HP ChemStation MS 10518.D: 1.887 to 14.861 Min
Y (x10^7)
Min
UNKNOWN
Chlorodifluoromethane
Chloromethane
Bromomethane
Isopentane
Trichlorofluoromethane
Benzene
Trichloroethene
Toluene-d8 (S)
Toluene
6.102
Octane
6.601
Tetrachloroethene
UNKNOWN
UNKNOWN
UNKNOWN
Chlorobenzene - d5
Ethyl Benzene
m&p-Xylene
Styrene
o-Xylene
Isopropylbenzene
9.099
N-Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
Decane
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,2,3-Trimethylbenzene
1,2-Dichlorobenzene
N-Butylbenzene
UNKNOWN
11.983
UNKNOWN
UNKNOWN
12.456
Naphthalene
13.526
13.616
13.948
14.198

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10519.D
Report Date: 15-Apr-2016 12:22

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713004
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 18:59

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.302	130	J
2. 111-65-9	Octane	6.372	3.87	NJ
3. 541-05-9	Cyclotrisiloxane, hexamethy	6.597	35.6	NJ
4.	Unknown	7.224	3.80	J
5.	Unknown	7.543	1.35	J
6. 124-18-5	Decane	10.070	2.94	NJ
7.	Unknown	11.841	0.0959	J
8.	Unknown	11.944	0.166	J
9.	Unknown	12.372	4.79	J
10.	Unknown	13.677	3.60	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10519.D
Report Date: 15-Apr-2016 12:22

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10519.D
Lab Smp Id: 10343713004
Inj Date : 14-APR-2016 18:59
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 14-Apr-2016 12:06 10air7.i Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 19
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

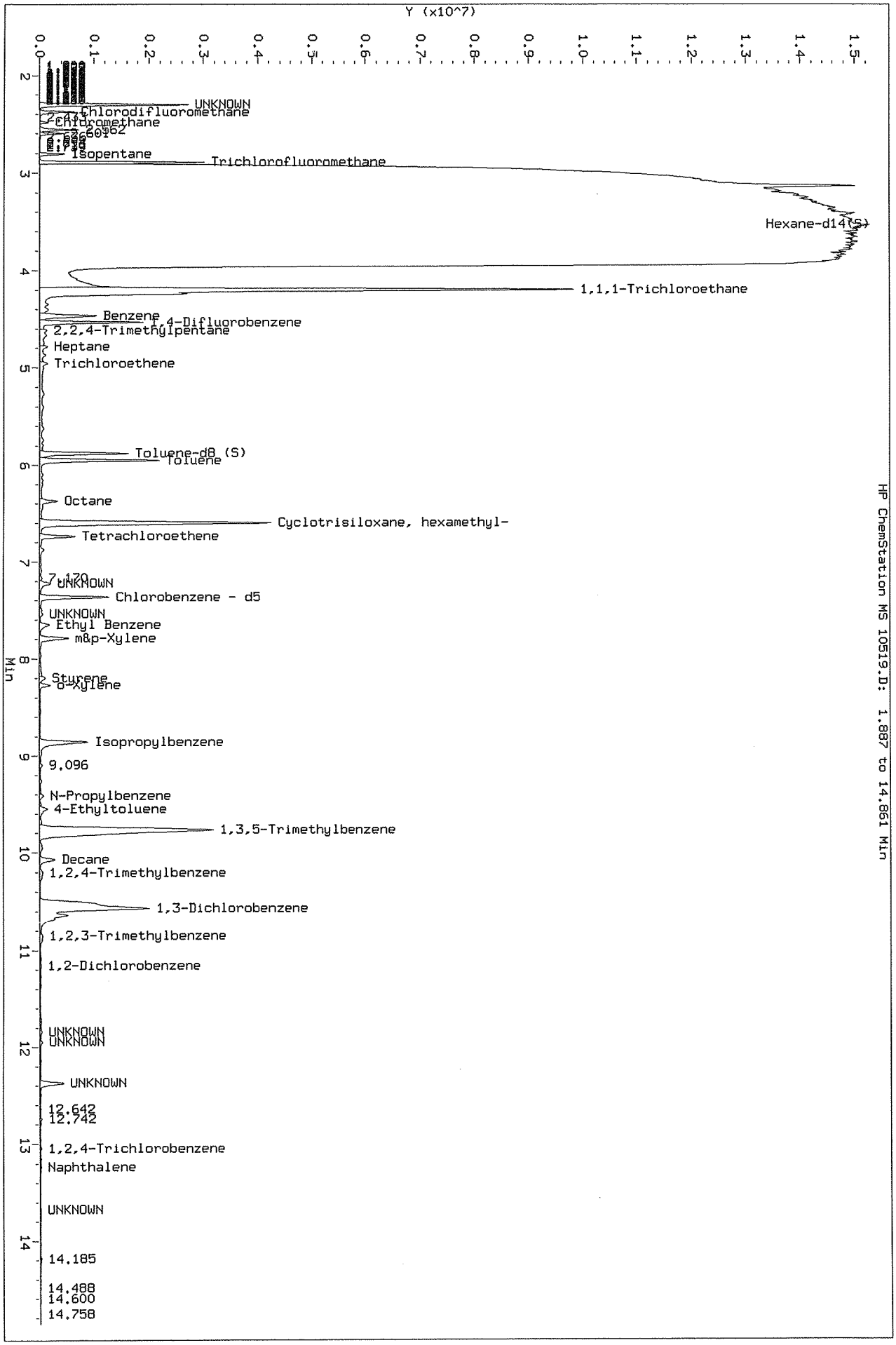
	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.379	814008	20.636
61	Tetrachloroethene	6.736	1889879	5.333
* 62	Chlorobenzene - d5	7.366	2349397	10.000
64	Ethyl Benzene	7.649	529213	1.719
75	1,2,4-Trimethylbenzene	10.205	383587	1.185
83	1,2-Dichlorobenzene	11.105	616443	0.169
85	1,2,4-Trichlorobenzene	13.115	171333	0.527
86	Naphthalene	13.234	112679	0.863

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.302	3684287	93.3990863	130	0		0	1

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10519.D
Report Date: 15-Apr-2016 12:22

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Octane					CAS #: 111-65-9		
6.372	986778	2.78438584	3.87	81	NBS75K.l	64207	61
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.597	9064313	25.5767295	35.6	91	NBS75K.l	70586	61
Unknown					CAS #:		
7.224	642875	2.73633804	3.80	0		0	62
Unknown					CAS #:		
7.543	300050	0.97445725	1.35	0		0	64
Decane					CAS #: 124-18-5		
10.070	685079	2.11560345	2.94	90	NBS75K.l	66205	75
Unknown					CAS #:		
11.841	251556	0.06897326	0.0959	0		0	83
Unknown					CAS #:		
11.944	435191	0.11932323	0.166	0		0	83
Unknown					CAS #:		
12.372	1119612	3.44372213	4.79	0		0	85
Unknown					CAS #:		
13.677	338083	2.58854229	3.60	0		0	86

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10519.D
Injection Date: 14-APR-2016 18:59
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10519.D: 1.887 to 14.861 Min

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10813.d
Report Date: 18-Apr-2016 10:07

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713005
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-APR-2016 15:59

Client SDG: 041716.B

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.288	53.5	J
2. 111-65-9	Octane	6.351	5.64	NJ
3.	Unknown	6.492	25.4	J
4.	Unknown	7.204	6.23	J
5.	Unknown	9.065	3.81	J
6. 556-67-2	Cyclotetrasiloxane, octamet	9.736	303	NJ
7. 124-18-5	Decane	10.041	2.95	NJ
8. 2199-69-1	Benzene-1,2,3,4-d4-, 5,6-di	10.644	0.290	NJ
9.	Unknown	10.840	0.253	J
10.	Unknown	12.358	11.6	J

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10813.d
Report Date: 18-Apr-2016 10:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\041716.B\10813.d
Lab Smp Id: 10343713005
Inj Date : 17-APR-2016 15:59
Operator : NCK Inst ID: 10airD.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\041716.B\TO15_107-16.m
Meth Date : 18-Apr-2016 09:40 nkoller Quant Type: ISTD
Cal Date : 16-APR-2016 12:50 Cal File: 10710.d
Als bottle: 13
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

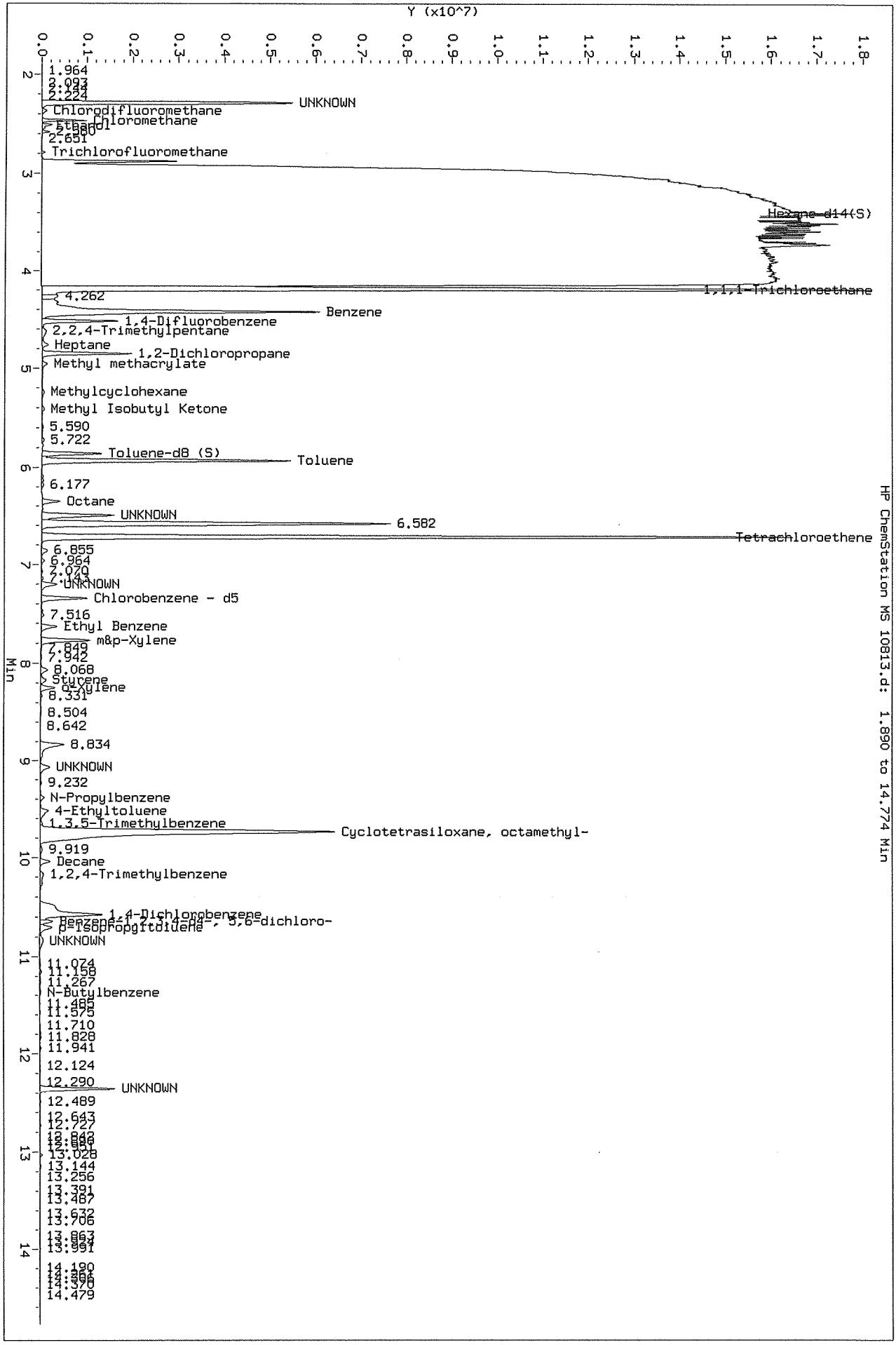
	COMPOUND	RT	AREA	AMOUNT
1	Chlorodifluoromethane	2.362	225287	0.897
61	Tetrachloroethene	6.723	30266442	170.515
* 62	Chlorobenzene - d5	7.346	1848169	10.000
71	N-Propylbenzene	9.386	180021	0.725
73	1,3,5-Trimethylbenzene	9.653	87576	0.849
75	1,2,4-Trimethylbenzene	10.169	484418	2.037
81	p-Isopropyltoluene	10.728	715923	0.271
84	N-Butylbenzene	11.328	96628	0.283

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.288	9667936	38.5140227	53.5	0		0	1

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10813.d
Report Date: 18-Apr-2016 10:07

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Octane					CAS #: 111-65-9		
6.351	719593	4.05404119	5.64	91	NBS75K.l	64208	61
Unknown					CAS #:		
6.492	3245116	18.2823358	25.4	0		0	61
Unknown					CAS #:		
7.204	827896	4.47954460	6.23	0		0	62
Unknown					CAS #:		
9.065	680845	2.74103632	3.81	0		0	71
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
9.736	22497060	218.050312	303	87	NBS75K.l	41966	73
Decane					CAS #: 124-18-5		
10.041	504470	2.12117079	2.95	91	NBS75K.l	66205	75
Benzene-1,2,3,4-d4-, 5,6-dichloro-					CAS #: 2199-69-1		
10.644	552468	0.20884095	0.290	94	NBS75K.l	9592	81
Unknown					CAS #:		
10.840	480955	0.18180800	0.253	0		0	81
Unknown					CAS #:		
12.358	2853720	8.36852036	11.6	0		0	84

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10813.d
Injection Date: 17-APR-2016 15:59
Instrument: 10airD.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10airD.i\041716.B\10814.d
Report Date: 18-Apr-2016 10:35

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713007
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-APR-2016 16:28

Client SDG: 041716.B

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.288	58.3	_J__
2.		Unknown	4.454	21.7	_J__
3.		Unknown	6.303	59.8	_J__
4.	541-05-9	Cyclotrisiloxane, hexamethy	6.588	102	NJ__
5.		Unknown	7.208	5.11	_J__
6.		Unknown	8.068	1.41	_J__
7.	556-67-2	Cyclotetrasiloxane, octamet	9.736	220	NJ__
8.	124-18-5	Decane	10.044	4.30	NJ__
9.	3855-82-1	1,4-Dichlorobenzene-d4	10.593	1.58	NJ__
10.		Unknown	12.345	7.20	_J__

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10814.d
Report Date: 18-Apr-2016 10:35

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\041716.B\10814.d
Lab Smp Id: 10343713007
Inj Date : 17-APR-2016 16:28
Operator : NCK Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\041716.B\TO15_107-16.m
Meth Date : 18-Apr-2016 09:40 nkoller Quant Type: ISTD
Cal Date : 16-APR-2016 12:50 Cal File: 10710.d
Als bottle: 14
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

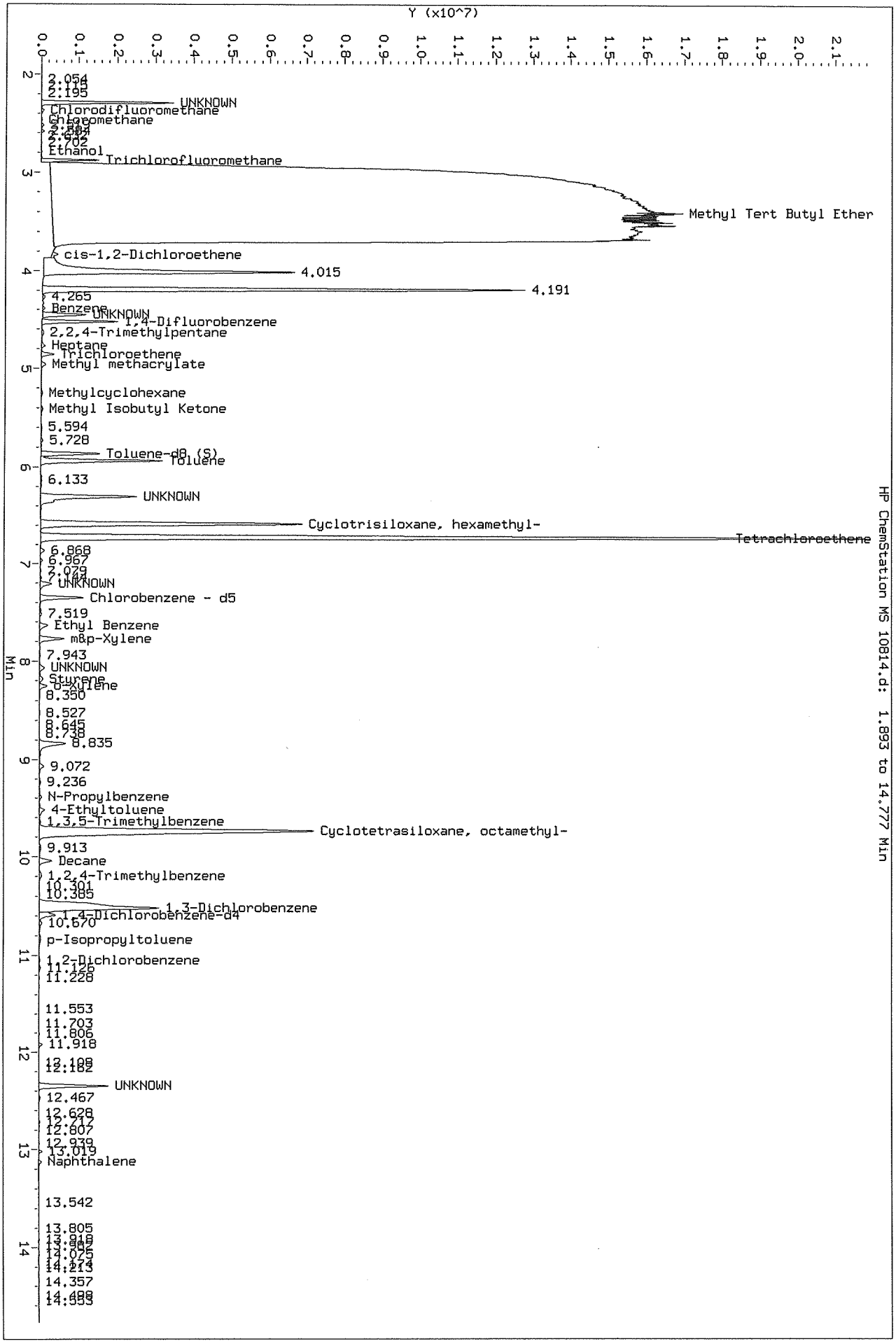
Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
	1 Chlorodifluoromethane	2.362	121897	1.013
	39 Benzene	4.377	98742	0.728
	56 Toluene	5.937	5757481	38.918
	61 Tetrachloroethene	6.730	44939170	214.072
*	62 Chlorobenzene - d5	7.352	2103558	10.000
	67 Styrene	8.190	293828	0.811
	73 1,3,5-Trimethylbenzene	9.653	76518	0.502
	75 1,2,4-Trimethylbenzene	10.173	252867	0.987
$	78 1,4-dichlorobenzene-d4	10.593	11088167	10.476
	86 Naphthalene	13.212	172531	0.269

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10814.d
Report Date: 18-Apr-2016 10:35

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.288	4873602	40.4848717	58.3	0		0	1
Unknown				CAS #:			
4.454	2044078	15.0753566	21.7	0		0	39
Unknown				CAS #:			
6.303	6146304	41.5458630	59.8	0		0	56
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.588	14886440	70.9129255	102	90	NBS75K.l	70586	61
Unknown				CAS #:			
7.208	746273	3.54766938	5.11	0		0	62
Unknown				CAS #:			
8.068	354866	0.97910070	1.41	0		0	67
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.736	23264729	152.636440	220	90	NBS75K.l	41966	73
Decane				CAS #: 124-18-5			
10.044	765402	2.98882933	4.30	91	NBS75K.l	66205	75
1,4-Dichlorobenzene-d4				CAS #: 3855-82-1			
10.593	1159979	1.09594548	1.58	95	NBS75K.l	9593	78
Unknown				CAS #:			
12.345	3211678	5.00123688	7.20	0		0	86

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10814.d
Injection Date: 17-APR-2016 16:28
Instrument: 10airD.i
Client Sample ID:



HP ChemStation MS 10814.d: 1.893 to 14.777 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10523.D
Report Date: 15-Apr-2016 15:21

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Client SDG: 041416.b
Lab Smp Id: 10343713008
Operator : NCK
Sample Date:
Sample Location:
Sample Point:
Sample Matrix: AIR
Date Received:
Analysis Type: VOA
Level: LOW
Inj Date: 14-APR-2016 20:51

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.302	124	J
2.	75-07-0	Acetaldehyde	2.527	19.3	NJ
3.	111-65-9	Octane	6.372	5.51	NJ
4.	541-05-9	Cyclotrisiloxane, hexamethy	6.594	9.90	NJ
5.		Unknown	7.543	0.268	J
6.	124-18-5	Decane	10.070	3.21	NJ
7.		Unknown	11.806	0.170	J
8.		Unknown	12.378	1.58	J
9.		Unknown	12.790	0.696	J
10.	629-78-7	Heptadecane	13.047	0.679	NJ

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10523.D
Report Date: 15-Apr-2016 15:21

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10523.D
Lab Smp Id: 10343713008
Inj Date : 14-APR-2016 20:51
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 15-Apr-2016 13:09 nkoller Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 23
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

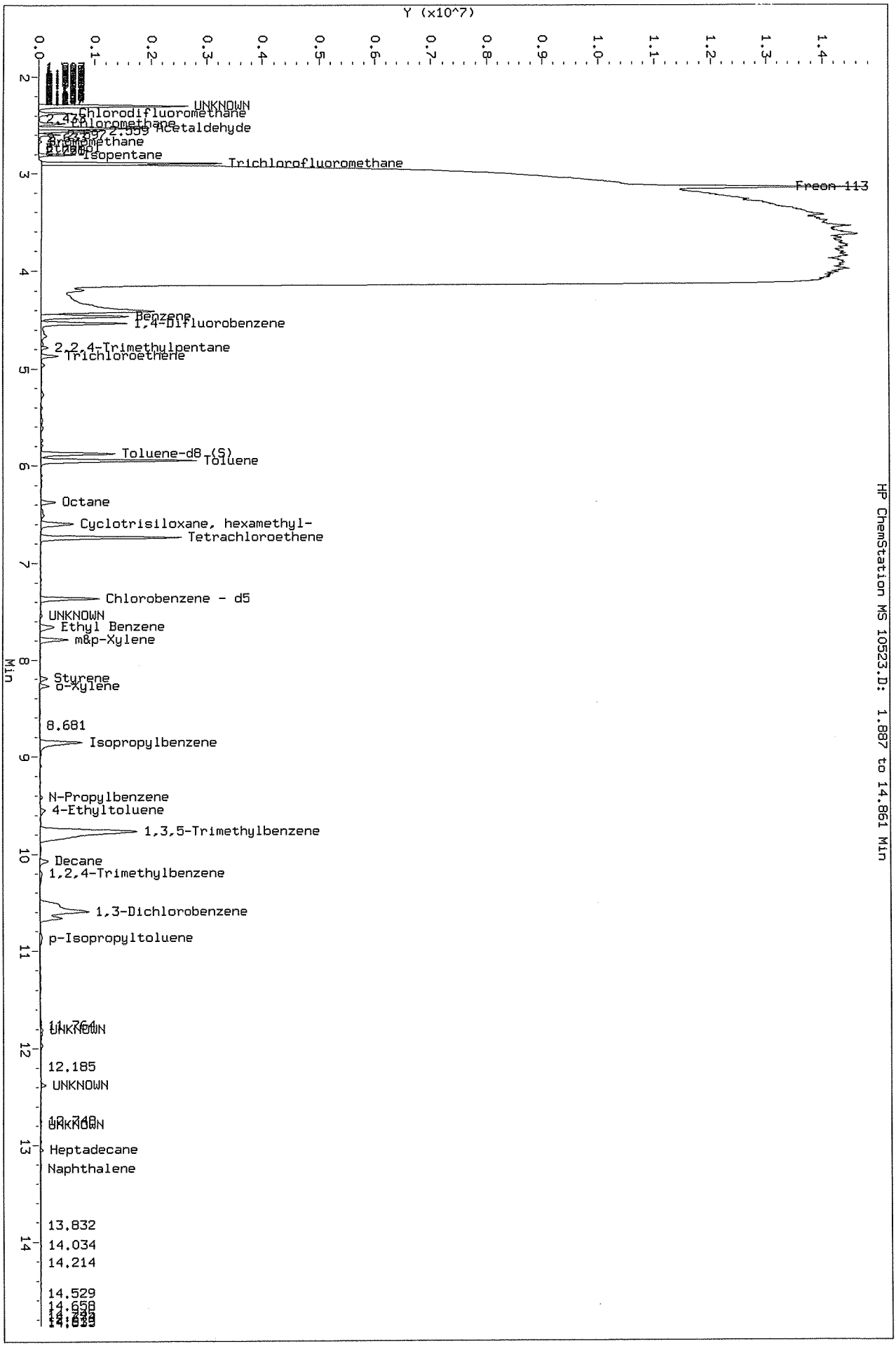
COMPOUND	RT	AREA	AMOUNT
1 Chlorodifluoromethane	2.376	789881	20.839
5 Chloromethane	2.475	549289	3.149
61 Tetrachloroethene	6.735	4220008	25.099
64 Ethyl Benzene	7.649	618916	1.962
75 1,2,4-Trimethylbenzene	10.198	184388	1.302
81 p-Isopropyltoluene	10.758	478579	0.210
86 Naphthalene	13.243	203445	0.883

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.302	3511019	92.6281320	124	0		0	1
Acetaldehyde					CAS #: 75-07-0		
2.527	2516702	14.4269785	19.3	74	NBS75K.1	36	5

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10523.D
Report Date: 15-Apr-2016 15:21

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Octane				CAS #: 111-65-9			
6.372	691095	4.11032858	5.51	72	NBS75K.l	3084	61
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.594	1242184	7.38796620	9.90	91	NBS75K.l	70586	61
Unknown				CAS #:			
7.543	63178	0.20027129	0.268	0		0	64
Decane				CAS #: 124-18-5			
10.070	339420	2.39598885	3.21	90	NBS75K.l	66205	75
Unknown				CAS #:			
11.806	288896	0.12692235	0.170	0		0	81
Unknown				CAS #:			
12.378	271214	1.17708197	1.58	0		0	86
Unknown				CAS #:			
12.790	119683	0.51943208	0.696	0		0	86
Heptadecane				CAS #: 629-78-7			
13.047	116823	0.50701849	0.679	78	NBS75K.l	71191	86

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10523.D
Injection Date: 14-APR-2016 20:51
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10523.D: 1.887 to 14.861 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10525.D
Report Date: 15-Apr-2016 15:59

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713009
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 21:46

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.305	32.7	J
2.	111-65-9	Octane	6.388	7.97	NJ
3.	541-05-9	Cyclotrisiloxane, hexamethy	6.652	87.2	NJ
4.		Unknown	7.263	4.76	J
5.	556-67-2	Cyclotetrasiloxane, octamet	9.790	14.5	NJ
6.		Unknown	12.382	17.9	J
7.		Unknown	12.758	1.53	J
8.	112-40-3	Dodecane	13.054	1.35	NJ
9.		Unknown	13.687	0.804	J
10.		Unknown	14.337	1.72	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10525.D
Report Date: 15-Apr-2016 15:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10525.D
Lab Smp Id: 10343713009
Inj Date : 14-APR-2016 21:46
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 15-Apr-2016 13:09 nkoller Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 25
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

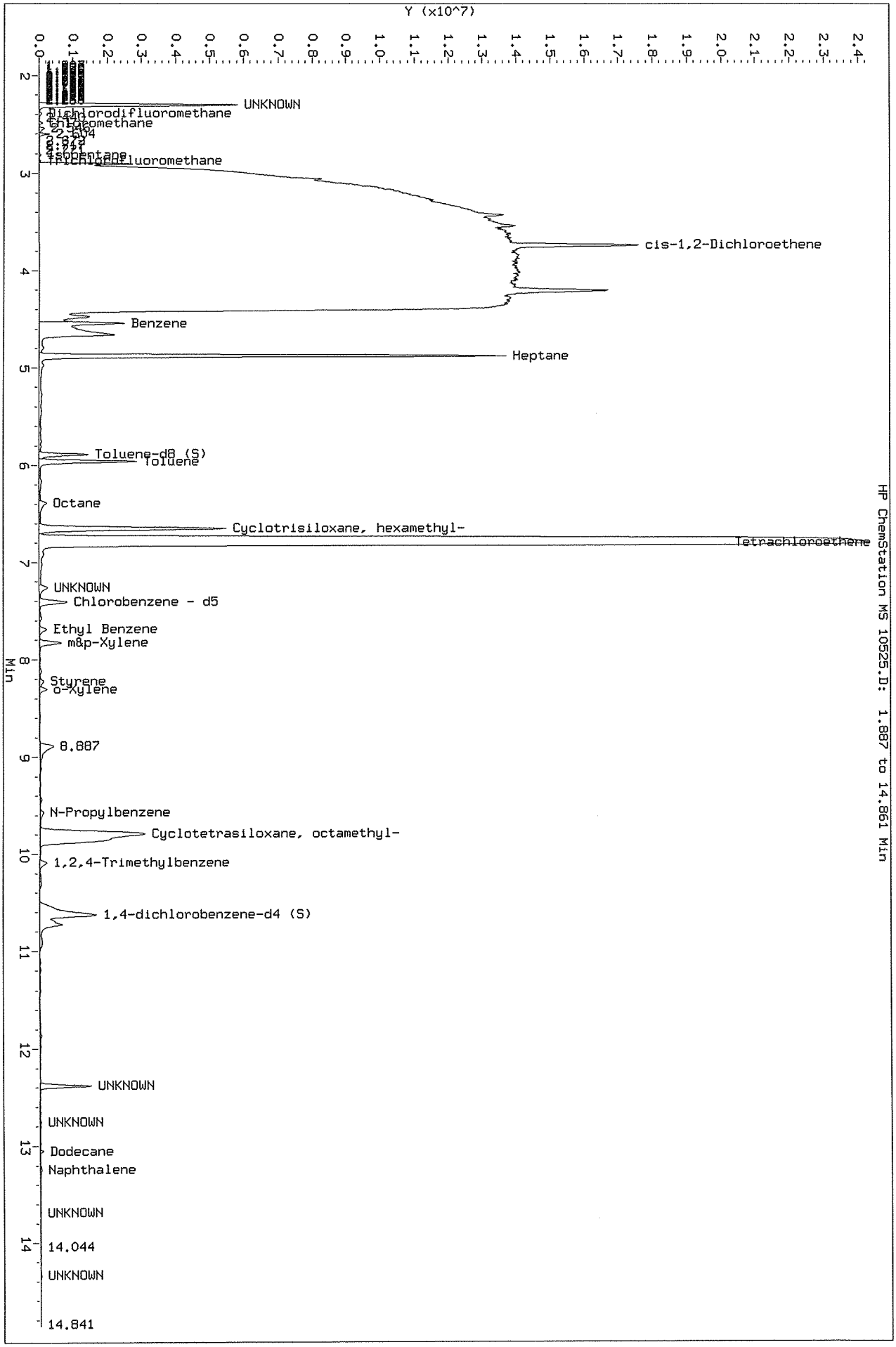
	COMPOUND	RT	AREA	AMOUNT
	3 Dichlorodifluoromethane	2.411	130317	0.339
	61 Tetrachloroethene	6.784	134607495	690.491
*	62 Chlorobenzene - d5	7.411	2520680	10.000
	71 N-Propylbenzene	9.433	460259	0.252
	86 Naphthalene	13.243	321383	1.369

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.305	9026987	23.5084939	32.7	0		0	3
Octane					CAS #: 111-65-9		
6.388	1117481	5.73229868	7.97	94	NBS75K.l	64209	61
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.652	12236443	62.7688021	87.2	91	NBS75K.l	70586	61

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10525.D
Report Date: 15-Apr-2016 15:59

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
7.263	863305	3.42488745	4.76	0		0	62
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.790	19033729	10.4191264	14.5	78	NBS75K.l	41966	71
Unknown				CAS #:			
12.382	3019191	12.8651973	17.9	0		0	86
Unknown				CAS #:			
12.758	258431	1.10121065	1.53	0		0	86
Dodecane				CAS #: 112-40-3			
13.054	227225	0.96823796	1.35	90	NBS75K.l	68250	86
Unknown				CAS #:			
13.687	135679	0.57814563	0.804	0		0	86
Unknown				CAS #:			
14.337	289672	1.23433435	1.72	0		0	86

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10525.D
Injection Date: 14-APR-2016 21:46
Instrument: 10air7.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10airD.i\041716.B\10815.d
Report Date: 18-Apr-2016 10:52

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10343713010
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 17-APR-2016 16:58

Client SDG: 041716.B

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.295	41.7	J
2.	107-46-0	Disiloxane, hexamethyl-	4.464	14.0	NJ
3.	541-05-9	Cyclotrisiloxane, hexamethy	6.617	11.0	NJ
4.		Unknown	7.230	4.31	J
5.		Unknown	7.541	1.14	J
6.	556-67-2	Cyclotetrasiloxane, octamet	9.736	216	NJ
7.		Unknown	9.900	2.17	J
8.	629-59-4	Tetradecane	10.047	3.99	NJ
9.		Unknown	12.339	29.9	J

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10815.d
Report Date: 18-Apr-2016 10:52

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\041716.B\10815.d
Lab Smp Id: 10343713010
Inj Date : 17-APR-2016 16:58
Operator : NCK Inst ID: 10airD.i
Smp Info :
Misc Info : 25717
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\041716.B\TO15_107-16.m
Meth Date : 18-Apr-2016 09:40 nkoller Quant Type: ISTD
Cal Date : 16-APR-2016 12:50 Cal File: 10710.d
Als bottle: 15
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

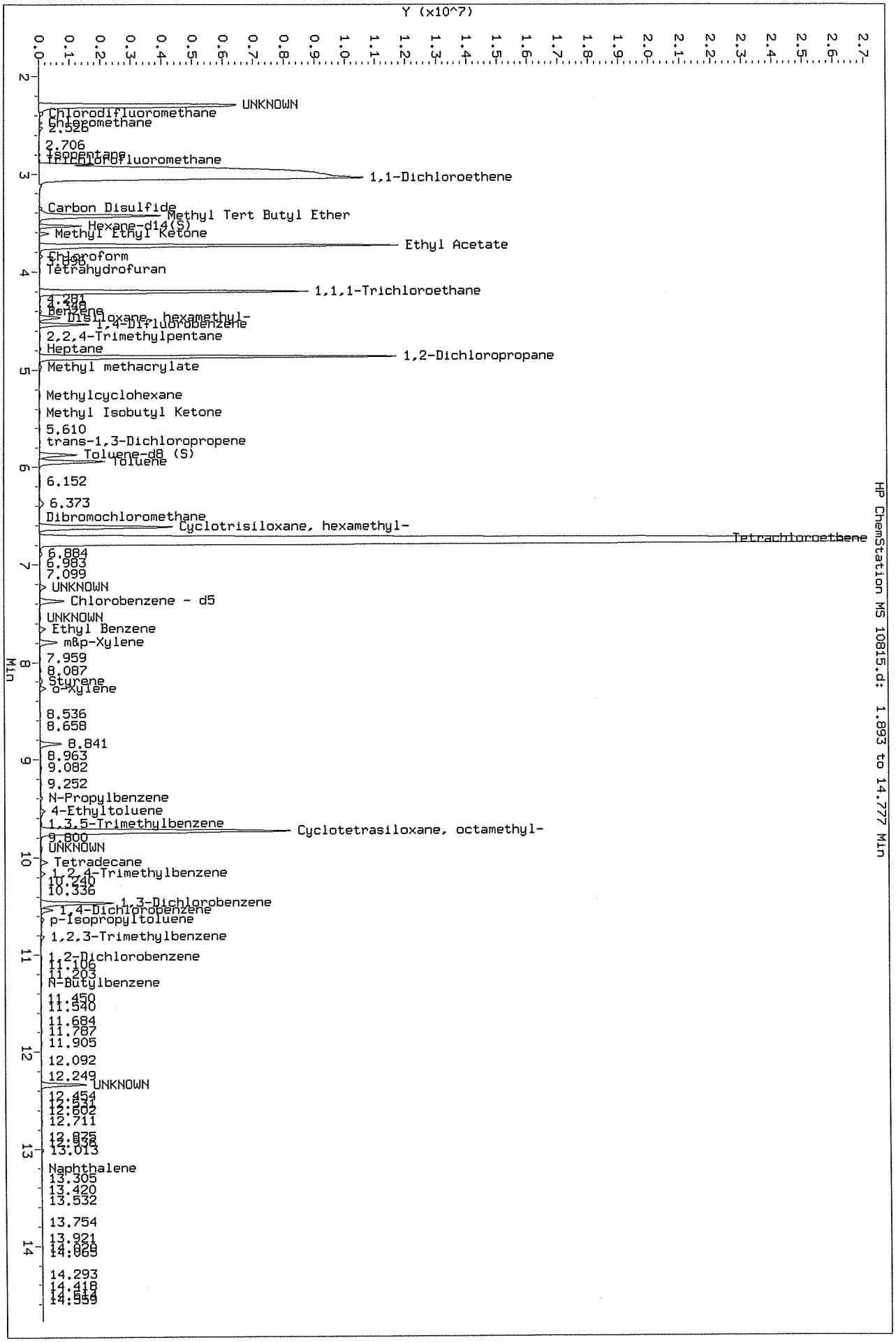
	COMPOUND	RT	AREA	AMOUNT
	1 Chlorodifluoromethane	2.369	241963	0.447
	39 Benzene	4.393	95229	0.721
	59 Dibromochloromethane	6.454	17035	0.015
*	62 Chlorobenzene - d5	7.371	1566248	10.000
	64 Ethyl Benzene	7.657	422328	2.477
	73 1,3,5-Trimethylbenzene	9.656	68008	0.555
	75 1,2,4-Trimethylbenzene	10.160	281769	1.817
	86 Naphthalene	13.199	43192	0.353

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.295	15649911	28.9391982	41.7	0		0	1

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10815.d
Report Date: 18-Apr-2016 10:52

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Disiloxane, hexamethyl-					CAS #: 107-46-0		
4.464	1280541	9.69450028	14.0	83	NBS75K.l	12788	39
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.617	8701747	7.67055452	11.0	91	NBS75K.l	70586	59
Unknown					CAS #:		
7.230	469078	2.99491400	4.31	0		0	62
Unknown					CAS #:		
7.541	134947	0.79145463	1.14	0		0	64
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
9.736	18401854	150.295738	216	90	NBS75K.l	41966	73
Unknown					CAS #:		
9.900	184768	1.50907997	2.17	0		0	73
Tetradecane					CAS #: 629-59-4		
10.047	429809	2.77230177	3.99	90	NBS75K.l	69661	75
Unknown					CAS #:		
12.339	2543219	20.7641649	29.9	0		0	86

Data File: \\192.168.10.12\chem\10airD.i\041716.B\10815.d
Injection Date: 17-APR-2016 16:58
Instrument: 10airD.i
Client Sample ID:



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 22, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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Minneapolis, MN 55414
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CERTIFICATIONS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10344419001	**M-SSV-1**	Air	04/11/16 09:31	04/12/16 10:22
10344419002	**M-SSV-2**	Air	04/11/16 09:32	04/12/16 10:22
10344419003	**M-SSV-3**	Air	04/11/16 09:33	04/12/16 10:22
10344419004	**M-SSV-4**	Air	04/11/16 09:34	04/12/16 10:22
10344419005	**M-SSV-5**	Air	04/11/16 09:35	04/12/16 10:22
10344419006	**M-IA-1**	Air	04/12/16 09:49	04/12/16 10:22
10344419007	**M-IA-2**	Air	04/12/16 09:51	04/12/16 10:22
10344419008	**M-IA-3**	Air	04/12/16 09:52	04/12/16 10:22
10344419009	**M-IA-4**	Air	04/12/16 09:45	04/12/16 10:22
10344419010	**AA-1**	Air	04/12/16 09:56	04/12/16 10:22
10344419011	**M-SSV-1 Can Cert**	Air	04/11/16 09:31	04/12/16 10:22
10344419012	**M-SSV-2 Can Cert**	Air	04/11/16 09:32	04/12/16 10:22
10344419013	**M-SSV-3 Can Cert**	Air	04/11/16 09:33	04/12/16 10:22
10344419014	**M-SSV-4 Can Cert**	Air	04/11/16 09:34	04/12/16 10:22
10344419015	**M-SSV-5 Can Cert**	Air	04/11/16 09:35	04/12/16 10:22
10344419016	**M-IA-1 Can Cert**	Air	04/12/16 09:49	04/12/16 10:22
10344419017	**M-IA-2 Can Cert**	Air	04/12/16 09:51	04/12/16 10:22
10344419018	**M-IA-3 Can Cert**	Air	04/12/16 09:52	04/12/16 10:22
10344419019	**M-IA-4 Can Cert**	Air	04/12/16 09:45	04/12/16 10:22
10344419020	**AA-1 Can Cert**	Air	04/12/16 09:56	04/12/16 10:22

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Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10344419001	**M-SSV-1**	TO-15	NCK	61
10344419002	**M-SSV-2**	TO-15	NCK	61
10344419003	**M-SSV-3**	TO-15	NCK	61
10344419004	**M-SSV-4**	TO-15	NCK	61
10344419005	**M-SSV-5**	TO-15	NCK	61
10344419006	**M-IA-1**	TO-15	NCK	61
10344419007	**M-IA-2**	TO-15	NCK	61
10344419008	**M-IA-3**	TO-15	NCK	61
10344419009	**M-IA-4**	TO-15	NCK	61
10344419010	**AA-1**	TO-15	NCK	61
10344419011	**M-SSV-1 Can Cert**	TO-15	MLS	61
10344419012	**M-SSV-2 Can Cert**	TO-15	MLS	61
10344419013	**M-SSV-3 Can Cert**	TO-15	MLS	61
10344419014	**M-SSV-4 Can Cert**	TO-15	MLS	61
10344419015	**M-SSV-5 Can Cert**	TO-15	MLS	61
10344419016	**M-IA-1 Can Cert**	TO-15	MLS	61
10344419017	**M-IA-2 Can Cert**	TO-15	NCK	61
10344419018	**M-IA-3 Can Cert**	TO-15	MLS	61
10344419019	**M-IA-4 Can Cert**	TO-15	MLS	61
10344419020	**AA-1 Can Cert**	TO-15	MJL	61

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Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10344419001	**M-SSV-1**					
TO-15	Acetone	51.4	ug/m3	3.3	04/20/16 20:18	
TO-15	Benzene	0.95	ug/m3	0.90	04/20/16 20:18	
TO-15	2-Butanone (MEK)	9.0	ug/m3	4.2	04/20/16 20:18	
TO-15	Chloromethane	0.79	ug/m3	0.58	04/20/16 20:18	
TO-15	Cyclohexane	8.5	ug/m3	0.97	04/20/16 20:18	
TO-15	1,3-Dichlorobenzene	43.7	ug/m3	1.7	04/20/16 20:18	
TO-15	Dichlorodifluoromethane	3.0	ug/m3	1.4	04/20/16 20:18	
TO-15	Ethanol	103	ug/m3	2.7	04/20/16 20:18	
TO-15	Ethyl acetate	2.9	ug/m3	1.0	04/20/16 20:18	
TO-15	Ethylbenzene	2.2	ug/m3	1.2	04/20/16 20:18	
TO-15	4-Ethyltoluene	1.9	ug/m3	1.4	04/20/16 20:18	
TO-15	n-Heptane	1.6	ug/m3	1.2	04/20/16 20:18	
TO-15	n-Hexane	6.4	ug/m3	1.0	04/20/16 20:18	
TO-15	Methylene Chloride	34.1	ug/m3	4.9	04/20/16 20:18	
TO-15	2-Propanol	288	ug/m3	3.5	04/20/16 20:18	
TO-15	Tetrachloroethene	0.96	ug/m3	0.96	04/20/16 20:18	
TO-15	Toluene	10.7	ug/m3	1.1	04/20/16 20:18	
TO-15	1,1,1-Trichloroethane	10.4	ug/m3	1.5	04/20/16 20:18	
TO-15	Trichloroethene	21.4	ug/m3	0.76	04/20/16 20:18	
TO-15	Trichlorofluoromethane	12.5	ug/m3	1.6	04/20/16 20:18	
TO-15	1,2,4-Trimethylbenzene	6.4	ug/m3	1.4	04/20/16 20:18	
TO-15	1,3,5-Trimethylbenzene	2.0	ug/m3	1.4	04/20/16 20:18	
TO-15	Vinyl acetate	1.6	ug/m3	1.0	04/20/16 20:18	
TO-15	m&p-Xylene	8.7	ug/m3	2.5	04/20/16 20:18	
TO-15	o-Xylene	2.6	ug/m3	1.2	04/20/16 20:18	
10344419002	**M-SSV-2**					
TO-15	Acetone	39.8	ug/m3	3.3	04/20/16 20:50	
TO-15	Benzene	1.2	ug/m3	0.90	04/20/16 20:50	
TO-15	2-Butanone (MEK)	9.6	ug/m3	4.2	04/20/16 20:50	
TO-15	Carbon disulfide	1.1	ug/m3	0.88	04/20/16 20:50	
TO-15	Cyclohexane	13.1	ug/m3	0.97	04/20/16 20:50	
TO-15	1,3-Dichlorobenzene	54.6	ug/m3	1.7	04/20/16 20:50	
TO-15	Dichlorodifluoromethane	2.4	ug/m3	1.4	04/20/16 20:50	
TO-15	Ethanol	105	ug/m3	2.7	04/20/16 20:50	
TO-15	Ethyl acetate	3.2	ug/m3	1.0	04/20/16 20:50	
TO-15	Ethylbenzene	1.8	ug/m3	1.2	04/20/16 20:50	
TO-15	4-Ethyltoluene	1.6	ug/m3	1.4	04/20/16 20:50	
TO-15	n-Heptane	1.3	ug/m3	1.2	04/20/16 20:50	
TO-15	n-Hexane	20.2	ug/m3	1.0	04/20/16 20:50	
TO-15	Methylene Chloride	30.2	ug/m3	4.9	04/20/16 20:50	
TO-15	2-Propanol	306	ug/m3	3.5	04/20/16 20:50	
TO-15	Tetrachloroethene	2.2	ug/m3	0.96	04/20/16 20:50	
TO-15	Toluene	10.6	ug/m3	1.1	04/20/16 20:50	
TO-15	1,1,1-Trichloroethane	2.9	ug/m3	1.5	04/20/16 20:50	
TO-15	Trichloroethene	35.9	ug/m3	0.76	04/20/16 20:50	
TO-15	Trichlorofluoromethane	10.8	ug/m3	1.6	04/20/16 20:50	
TO-15	1,2,4-Trimethylbenzene	5.9	ug/m3	1.4	04/20/16 20:50	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10344419002	**M-SSV-2**					
TO-15	1,3,5-Trimethylbenzene	1.9	ug/m3	1.4	04/20/16 20:50	
TO-15	Vinyl acetate	2.4	ug/m3	1.0	04/20/16 20:50	
TO-15	m&p-Xylene	7.2	ug/m3	2.5	04/20/16 20:50	
TO-15	o-Xylene	2.5	ug/m3	1.2	04/20/16 20:50	
10344419003	**M-SSV-3**					
TO-15	Acetone	42.8	ug/m3	3.3	04/20/16 21:21	
TO-15	Chloromethane	1.3	ug/m3	0.58	04/20/16 21:21	
TO-15	Cyclohexane	1.4	ug/m3	0.97	04/20/16 21:21	
TO-15	1,3-Dichlorobenzene	94.3	ug/m3	1.7	04/20/16 21:21	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.4	04/20/16 21:21	
TO-15	Ethanol	120	ug/m3	2.7	04/20/16 21:21	
TO-15	Ethyl acetate	3.0	ug/m3	1.0	04/20/16 21:21	
TO-15	Ethylbenzene	1.7	ug/m3	1.2	04/20/16 21:21	
TO-15	4-Ethyltoluene	1.5	ug/m3	1.4	04/20/16 21:21	
TO-15	n-Hexane	3.2	ug/m3	1.0	04/20/16 21:21	
TO-15	Methylene Chloride	9.3	ug/m3	4.9	04/20/16 21:21	
TO-15	2-Propanol	470	ug/m3	3.5	04/20/16 21:21	
TO-15	Tetrachloroethene	2.4	ug/m3	0.96	04/20/16 21:21	
TO-15	Tetrahydrofuran	1.5	ug/m3	0.83	04/20/16 21:21	
TO-15	Toluene	4.3	ug/m3	1.1	04/20/16 21:21	
TO-15	Trichloroethene	1.5	ug/m3	0.76	04/20/16 21:21	
TO-15	Trichlorofluoromethane	7.4	ug/m3	1.6	04/20/16 21:21	
TO-15	1,2,4-Trimethylbenzene	5.4	ug/m3	1.4	04/20/16 21:21	
TO-15	1,3,5-Trimethylbenzene	1.8	ug/m3	1.4	04/20/16 21:21	
TO-15	Vinyl acetate	1.9	ug/m3	1.0	04/20/16 21:21	
TO-15	m&p-Xylene	7.8	ug/m3	2.5	04/20/16 21:21	
TO-15	o-Xylene	2.8	ug/m3	1.2	04/20/16 21:21	
10344419004	**M-SSV-4**					
TO-15	Acetone	99.9	ug/m3	3.2	04/20/16 21:53	
TO-15	Benzene	1.2	ug/m3	0.87	04/20/16 21:53	
TO-15	2-Butanone (MEK)	12.3	ug/m3	4.0	04/20/16 21:53	
TO-15	Chloromethane	1.4	ug/m3	0.56	04/20/16 21:53	
TO-15	Cyclohexane	9.9	ug/m3	0.94	04/20/16 21:53	
TO-15	1,3-Dichlorobenzene	23.4	ug/m3	1.6	04/20/16 21:53	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.4	04/20/16 21:53	
TO-15	Ethanol	129	ug/m3	2.6	04/20/16 21:53	
TO-15	Ethyl acetate	20.1	ug/m3	0.98	04/20/16 21:53	
TO-15	Ethylbenzene	2.1	ug/m3	1.2	04/20/16 21:53	
TO-15	4-Ethyltoluene	1.6	ug/m3	1.3	04/20/16 21:53	
TO-15	n-Heptane	1.4	ug/m3	1.1	04/20/16 21:53	
TO-15	n-Hexane	21.2	ug/m3	0.96	04/20/16 21:53	
TO-15	Methylene Chloride	93.9	ug/m3	4.7	04/20/16 21:53	
TO-15	2-Propanol	359	ug/m3	3.4	04/20/16 21:53	
TO-15	Styrene	2.2	ug/m3	1.2	04/20/16 21:53	
TO-15	Tetrachloroethene	1.3	ug/m3	0.92	04/20/16 21:53	
TO-15	Toluene	34.2	ug/m3	1.0	04/20/16 21:53	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10344419004	**M-SSV-4**					
TO-15	1,1,1-Trichloroethane	2.6	ug/m3	1.5	04/20/16 21:53	
TO-15	Trichloroethene	10.3	ug/m3	0.74	04/20/16 21:53	
TO-15	Trichlorofluoromethane	13.5	ug/m3	1.5	04/20/16 21:53	
TO-15	1,2,4-Trimethylbenzene	5.5	ug/m3	1.3	04/20/16 21:53	
TO-15	1,3,5-Trimethylbenzene	1.7	ug/m3	1.3	04/20/16 21:53	
TO-15	Vinyl acetate	1.7	ug/m3	0.96	04/20/16 21:53	
TO-15	m&p-Xylene	8.0	ug/m3	2.4	04/20/16 21:53	
TO-15	o-Xylene	2.5	ug/m3	1.2	04/20/16 21:53	
10344419005	**M-SSV-5**					
TO-15	Acetone	54.0	ug/m3	3.3	04/20/16 22:24	
TO-15	2-Butanone (MEK)	7.0	ug/m3	4.2	04/20/16 22:24	
TO-15	Cyclohexane	4.0	ug/m3	0.97	04/20/16 22:24	
TO-15	1,3-Dichlorobenzene	36.8	ug/m3	1.7	04/20/16 22:24	
TO-15	Dichlorodifluoromethane	1.8	ug/m3	1.4	04/20/16 22:24	
TO-15	Ethanol	108	ug/m3	2.7	04/20/16 22:24	
TO-15	Ethyl acetate	2.5	ug/m3	1.0	04/20/16 22:24	
TO-15	Ethylbenzene	1.6	ug/m3	1.2	04/20/16 22:24	
TO-15	4-Ethyltoluene	2.5	ug/m3	1.4	04/20/16 22:24	
TO-15	n-Hexane	8.7	ug/m3	1.0	04/20/16 22:24	
TO-15	Methylene Chloride	8.1	ug/m3	4.9	04/20/16 22:24	
TO-15	2-Propanol	311	ug/m3	3.5	04/20/16 22:24	
TO-15	Tetrachloroethene	1.0	ug/m3	0.96	04/20/16 22:24	
TO-15	Tetrahydrofuran	2.0	ug/m3	0.83	04/20/16 22:24	
TO-15	Toluene	6.1	ug/m3	1.1	04/20/16 22:24	
TO-15	Trichloroethene	9.5	ug/m3	0.76	04/20/16 22:24	
TO-15	Trichlorofluoromethane	5.6	ug/m3	1.6	04/20/16 22:24	
TO-15	1,2,4-Trimethylbenzene	8.0	ug/m3	1.4	04/20/16 22:24	
TO-15	1,3,5-Trimethylbenzene	1.9	ug/m3	1.4	04/20/16 22:24	
TO-15	Vinyl acetate	1.2	ug/m3	1.0	04/20/16 22:24	
TO-15	m&p-Xylene	6.8	ug/m3	2.5	04/20/16 22:24	
TO-15	o-Xylene	2.4	ug/m3	1.2	04/20/16 22:24	
10344419006	**M-IA-1**					
TO-15	Dichlorodifluoromethane	1.7	ug/m3	1.5	04/20/16 15:14	
TO-15	Trichlorofluoromethane	16.5	ug/m3	1.7	04/20/16 15:14	
TO-15	Methylene Chloride	39.3	ug/m3	5.3	04/20/16 15:14	
TO-15	1,1,1-Trichloroethane	5.9	ug/m3	1.7	04/20/16 15:14	
TO-15	Benzene	1.7	ug/m3	0.97	04/20/16 15:14	
TO-15	Trichloroethene	26.9	ug/m3	0.82	04/20/16 15:14	
TO-15	Toluene	29.8	ug/m3	1.1	04/20/16 15:14	
TO-15	Ethylbenzene	4.6	ug/m3	1.3	04/20/16 15:14	
TO-15	m&p-Xylene	16.2	ug/m3	2.6	04/20/16 15:14	
TO-15	o-Xylene	4.9	ug/m3	1.3	04/20/16 15:14	
TO-15	Styrene	3.2	ug/m3	1.3	04/20/16 15:14	
TO-15	1,3,5-Trimethylbenzene	4.9	ug/m3	1.5	04/20/16 15:14	
TO-15	1,2,4-Trimethylbenzene	17.3	ug/m3	1.5	04/20/16 15:14	
TO-15	Acetone	84.6	ug/m3	3.6	04/20/16 15:14	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10344419006	**M-IA-1**					
TO-15	2-Butanone (MEK)	21.3	ug/m3	4.5	04/20/16 15:14	
TO-15	n-Hexane	48.0	ug/m3	1.1	04/20/16 15:14	
TO-15	Vinyl acetate	2.7	ug/m3	1.1	04/20/16 15:14	
TO-15	Cyclohexane	24.8	ug/m3	1.0	04/20/16 15:14	
TO-15	Ethyl acetate	1.8	ug/m3	1.1	04/20/16 15:14	
TO-15	n-Heptane	2.6	ug/m3	1.2	04/20/16 15:14	
TO-15	4-Ethyltoluene	5.2	ug/m3	1.5	04/20/16 15:14	
TO-15	Ethanol	26.7	ug/m3	2.9	04/20/16 15:14	
TO-15	2-Propanol	5.2	ug/m3	3.7	04/20/16 15:14	
10344419007	**M-IA-2**					
TO-15	Acetone	110	ug/m3	5.4	04/14/16 20:23	
TO-15	Benzene	8.9	ug/m3	0.73	04/14/16 20:23	
TO-15	Carbon tetrachloride	3.4	ug/m3	2.9	04/14/16 20:23	
TO-15	Chloromethane	4.2	ug/m3	0.94	04/14/16 20:23	
TO-15	Cyclohexane	13.9	ug/m3	1.6	04/14/16 20:23	
TO-15	1,3-Dichlorobenzene	11.0	ug/m3	6.8	04/14/16 20:23	
TO-15	Dichlorodifluoromethane	4.0	ug/m3	2.3	04/14/16 20:23	
TO-15	Ethanol	68.5	ug/m3	2.2	04/14/16 20:23	
TO-15	Ethylbenzene	6.4	ug/m3	2.0	04/14/16 20:23	
TO-15	4-Ethyltoluene	3.3	ug/m3	2.2	04/14/16 20:23	
TO-15	n-Heptane	11.5	ug/m3	1.9	04/14/16 20:23	
TO-15	n-Hexane	263	ug/m3	1.6	04/14/16 20:23	
TO-15	Naphthalene	11.2	ug/m3	6.0	04/14/16 20:23	
TO-15	2-Propanol	802	ug/m3	5.6	04/14/16 20:23	
TO-15	Tetrachloroethene	13.6	ug/m3	1.5	04/14/16 20:23	
TO-15	Toluene	55.4	ug/m3	1.7	04/14/16 20:23	
TO-15	Trichloroethene	12.4	ug/m3	1.2	04/14/16 20:23	
TO-15	Trichlorofluoromethane	5.0	ug/m3	2.6	04/14/16 20:23	
TO-15	1,2,4-Trimethylbenzene	10.3	ug/m3	2.2	04/14/16 20:23	
TO-15	1,3,5-Trimethylbenzene	3.2	ug/m3	2.2	04/14/16 20:23	
TO-15	m&p-Xylene	26.9	ug/m3	4.0	04/14/16 20:23	
TO-15	o-Xylene	10.2	ug/m3	4.9	04/14/16 20:23	
10344419008	**M-IA-3**					
TO-15	Acetone	72.6	ug/m3	3.7	04/20/16 16:17	
TO-15	2-Butanone (MEK)	5.2	ug/m3	4.6	04/20/16 16:17	
TO-15	Chloromethane	1.9	ug/m3	0.65	04/20/16 16:17	
TO-15	Cyclohexane	3.0	ug/m3	1.1	04/20/16 16:17	
TO-15	Dichlorodifluoromethane	2.0	ug/m3	1.6	04/20/16 16:17	
TO-15	Ethanol	46.0	ug/m3	3.0	04/20/16 16:17	
TO-15	n-Hexane	5.9	ug/m3	1.1	04/20/16 16:17	
TO-15	Methylene Chloride	7.6	ug/m3	5.5	04/20/16 16:17	
TO-15	Tetrahydrofuran	1.2	ug/m3	0.93	04/20/16 16:17	
TO-15	Toluene	5.3	ug/m3	1.2	04/20/16 16:17	
TO-15	Trichloroethene	2.5	ug/m3	0.85	04/20/16 16:17	
TO-15	Trichlorofluoromethane	7.7	ug/m3	1.8	04/20/16 16:17	
TO-15	1,2,4-Trimethylbenzene	3.0	ug/m3	1.5	04/20/16 16:17	

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SUMMARY OF DETECTION

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10344419008	**M-IA-3**					
TO-15	m&p-Xylene	2.9	ug/m3	2.7	04/20/16 16:17	
10344419009	**M-IA-4**					
TO-15	Acetone	55.6	ug/m3	3.6	04/20/16 17:20	
TO-15	Benzene	2.5	ug/m3	0.97	04/20/16 17:20	
TO-15	2-Butanone (MEK)	14.7	ug/m3	4.5	04/20/16 17:20	
TO-15	Cyclohexane	18.9	ug/m3	1.0	04/20/16 17:20	
TO-15	Dichlorodifluoromethane	1.9	ug/m3	1.5	04/20/16 17:20	
TO-15	Ethanol	78.4	ug/m3	2.9	04/20/16 17:20	
TO-15	Ethyl acetate	4.8	ug/m3	1.1	04/20/16 17:20	
TO-15	Ethylbenzene	4.5	ug/m3	1.3	04/20/16 17:20	
TO-15	4-Ethyltoluene	4.1	ug/m3	1.5	04/20/16 17:20	
TO-15	n-Heptane	2.8	ug/m3	1.2	04/20/16 17:20	
TO-15	n-Hexane	35.5	ug/m3	1.1	04/20/16 17:20	
TO-15	Methylene Chloride	62.9	ug/m3	5.3	04/20/16 17:20	
TO-15	2-Propanol	9.2	ug/m3	3.7	04/20/16 17:20	
TO-15	Styrene	2.9	ug/m3	1.3	04/20/16 17:20	
TO-15	Toluene	31.8	ug/m3	1.1	04/20/16 17:20	
TO-15	1,1,1-Trichloroethane	2.9	ug/m3	1.7	04/20/16 17:20	
TO-15	Trichloroethene	15.2	ug/m3	0.82	04/20/16 17:20	
TO-15	Trichlorofluoromethane	13.8	ug/m3	1.7	04/20/16 17:20	
TO-15	1,2,4-Trimethylbenzene	14.4	ug/m3	1.5	04/20/16 17:20	
TO-15	1,3,5-Trimethylbenzene	4.0	ug/m3	1.5	04/20/16 17:20	
TO-15	Vinyl acetate	2.3	ug/m3	1.1	04/20/16 17:20	
TO-15	m&p-Xylene	16.9	ug/m3	2.6	04/20/16 17:20	
TO-15	o-Xylene	4.9	ug/m3	1.3	04/20/16 17:20	
10344419010	**AA-1**					
TO-15	Chloromethane	2.4	ug/m3	0.60	04/20/16 17:52	
TO-15	Dichlorodifluoromethane	1.8	ug/m3	1.5	04/20/16 17:52	

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Date: April 22, 2016

M-SSV-1 (Lab ID: 10344419001)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-SSV-2 (Lab ID: 10344419002)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-SSV-3 (Lab ID: 10344419003)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-SSV-4 (Lab ID: 10344419004)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-SSV-5 (Lab ID: 10344419005)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-IA-1 (Lab ID: 10344419006)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-IA-2 (Lab ID: 10344419007)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

M-IA-3 (Lab ID: 10344419008)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

M-IA-4 (Lab ID: 10344419009)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

AA-1 (Lab ID: 10344419010)

- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: April 22, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/25736

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- AA-1 (Lab ID: 10344419010)
  - Propylene
- BLANK (Lab ID: 2236916)
  - Propylene
- DUP (Lab ID: 2237559)
  - Propylene
- LCS (Lab ID: 2236917)
  - Propylene
- M-IA-1 (Lab ID: 10344419006)
  - Propylene
- M-IA-3 (Lab ID: 10344419008)
  - Propylene
- M-IA-4 (Lab ID: 10344419009)
  - Propylene
- M-SSV-1 (Lab ID: 10344419001)
  - Propylene
- M-SSV-2 (Lab ID: 10344419002)
  - Propylene
- M-SSV-3 (Lab ID: 10344419003)
  - Propylene
- M-SSV-4 (Lab ID: 10344419004)
  - Propylene
- M-SSV-5 (Lab ID: 10344419005)
  - Propylene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Method: **TO-15**
Description: TO15 MSV AIR
Client: AECOM- MN ND
Date: April 22, 2016

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Method: **TO-15**
Description: Individual Can Certification
Client: AECOM- MN ND
Date: April 22, 2016

General Information:
10 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-1 **Lab ID: 10344419001** Collected: 04/11/16 09:31 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**51.4**	ug/m3	3.3	1.2	1.39		04/20/16 20:18	67-64-1	
Benzene	**0.95**	ug/m3	0.90	0.17	1.39		04/20/16 20:18	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		04/20/16 20:18	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/20/16 20:18	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		04/20/16 20:18	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/20/16 20:18	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/20/16 20:18	106-99-0	
2-Butanone (MEK)	**9.0**	ug/m3	4.2	0.32	1.39		04/20/16 20:18	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		04/20/16 20:18	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		04/20/16 20:18	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/20/16 20:18	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/20/16 20:18	75-00-3	
Chloroform	ND	ug/m3	1.4	0.26	1.39		04/20/16 20:18	67-66-3	
Chloromethane	**0.79**	ug/m3	0.58	0.15	1.39		04/20/16 20:18	74-87-3	
Cyclohexane	**8.5**	ug/m3	0.97	0.44	1.39		04/20/16 20:18	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		04/20/16 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/20/16 20:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/20/16 20:18	95-50-1	
1,3-Dichlorobenzene	**43.7**	ug/m3	1.7	0.74	1.39		04/20/16 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		04/20/16 20:18	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.4	0.67	1.39		04/20/16 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/20/16 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/20/16 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/20/16 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		04/20/16 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/20/16 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/20/16 20:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/20/16 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		04/20/16 20:18	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/20/16 20:18	76-14-2	
Ethanol	**103**	ug/m3	2.7	0.37	1.39		04/20/16 20:18	64-17-5	
Ethyl acetate	**2.9**	ug/m3	1.0	0.48	1.39		04/20/16 20:18	141-78-6	
Ethylbenzene	**2.2**	ug/m3	1.2	0.59	1.39		04/20/16 20:18	100-41-4	
4-Ethyltoluene	**1.9**	ug/m3	1.4	0.26	1.39		04/20/16 20:18	622-96-8	
n-Heptane	**1.6**	ug/m3	1.2	0.39	1.39		04/20/16 20:18	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.1	0.90	1.39		04/20/16 20:18	87-68-3	
n-Hexane	**6.4**	ug/m3	1.0	0.50	1.39		04/20/16 20:18	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/20/16 20:18	591-78-6	
Methylene Chloride	**34.1**	ug/m3	4.9	0.75	1.39		04/20/16 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/20/16 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		04/20/16 20:18	1634-04-4	
Naphthalene	ND	ug/m3	7.4	0.42	1.39		04/20/16 20:18	91-20-3	
2-Propanol	**288**	ug/m3	3.5	0.33	1.39		04/20/16 20:18	67-63-0	
Propylene	ND	ug/m3	1.2	0.19	1.39		04/20/16 20:18	115-07-1	SS
Styrene	ND	ug/m3	1.2	0.27	1.39		04/20/16 20:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/20/16 20:18	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-1 **Lab ID: 10344419001** Collected: 04/11/16 09:31 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**0.96**	ug/m3	0.96	0.39	1.39		04/20/16 20:18	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/20/16 20:18	109-99-9	
Toluene	**10.7**	ug/m3	1.1	0.21	1.39		04/20/16 20:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/20/16 20:18	120-82-1	
1,1,1-Trichloroethane	**10.4**	ug/m3	1.5	0.34	1.39		04/20/16 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/20/16 20:18	79-00-5	
Trichloroethene	**21.4**	ug/m3	0.76	0.38	1.39		04/20/16 20:18	79-01-6	
Trichlorofluoromethane	**12.5**	ug/m3	1.6	0.18	1.39		04/20/16 20:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/20/16 20:18	76-13-1	
1,2,4-Trimethylbenzene	**6.4**	ug/m3	1.4	0.17	1.39		04/20/16 20:18	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.4	0.25	1.39		04/20/16 20:18	108-67-8	
Vinyl acetate	**1.6**	ug/m3	1.0	0.46	1.39		04/20/16 20:18	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/20/16 20:18	75-01-4	
m&p-Xylene	**8.7**	ug/m3	2.5	1.1	1.39		04/20/16 20:18	179601-23-1	
o-Xylene	**2.6**	ug/m3	1.2	0.49	1.39		04/20/16 20:18	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-2 **Lab ID: 10344419002** Collected: 04/11/16 09:32 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**39.8**	ug/m3	3.3	1.2	1.39		04/20/16 20:50	67-64-1	
Benzene	**1.2**	ug/m3	0.90	0.17	1.39		04/20/16 20:50	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		04/20/16 20:50	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/20/16 20:50	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		04/20/16 20:50	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/20/16 20:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/20/16 20:50	106-99-0	
2-Butanone (MEK)	**9.6**	ug/m3	4.2	0.32	1.39		04/20/16 20:50	78-93-3	
Carbon disulfide	**1.1**	ug/m3	0.88	0.14	1.39		04/20/16 20:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		04/20/16 20:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/20/16 20:50	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/20/16 20:50	75-00-3	
Chloroform	ND	ug/m3	1.4	0.26	1.39		04/20/16 20:50	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		04/20/16 20:50	74-87-3	
Cyclohexane	**13.1**	ug/m3	0.97	0.44	1.39		04/20/16 20:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		04/20/16 20:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/20/16 20:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/20/16 20:50	95-50-1	
1,3-Dichlorobenzene	**54.6**	ug/m3	1.7	0.74	1.39		04/20/16 20:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		04/20/16 20:50	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.4	0.67	1.39		04/20/16 20:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/20/16 20:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/20/16 20:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/20/16 20:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		04/20/16 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/20/16 20:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/20/16 20:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/20/16 20:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		04/20/16 20:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/20/16 20:50	76-14-2	
Ethanol	**105**	ug/m3	2.7	0.37	1.39		04/20/16 20:50	64-17-5	
Ethyl acetate	**3.2**	ug/m3	1.0	0.48	1.39		04/20/16 20:50	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.2	0.59	1.39		04/20/16 20:50	100-41-4	
4-Ethyltoluene	**1.6**	ug/m3	1.4	0.26	1.39		04/20/16 20:50	622-96-8	
n-Heptane	**1.3**	ug/m3	1.2	0.39	1.39		04/20/16 20:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.1	0.90	1.39		04/20/16 20:50	87-68-3	
n-Hexane	**20.2**	ug/m3	1.0	0.50	1.39		04/20/16 20:50	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/20/16 20:50	591-78-6	
Methylene Chloride	**30.2**	ug/m3	4.9	0.75	1.39		04/20/16 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/20/16 20:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		04/20/16 20:50	1634-04-4	
Naphthalene	ND	ug/m3	7.4	0.42	1.39		04/20/16 20:50	91-20-3	
2-Propanol	**306**	ug/m3	3.5	0.33	1.39		04/20/16 20:50	67-63-0	
Propylene	ND	ug/m3	1.2	0.19	1.39		04/20/16 20:50	115-07-1	SS
Styrene	ND	ug/m3	1.2	0.27	1.39		04/20/16 20:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/20/16 20:50	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-2 **Lab ID: 10344419002** Collected: 04/11/16 09:32 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2.2**	ug/m3	0.96	0.39	1.39		04/20/16 20:50	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		04/20/16 20:50	109-99-9	
Toluene	**10.6**	ug/m3	1.1	0.21	1.39		04/20/16 20:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/20/16 20:50	120-82-1	
1,1,1-Trichloroethane	**2.9**	ug/m3	1.5	0.34	1.39		04/20/16 20:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/20/16 20:50	79-00-5	
Trichloroethene	**35.9**	ug/m3	0.76	0.38	1.39		04/20/16 20:50	79-01-6	
Trichlorofluoromethane	**10.8**	ug/m3	1.6	0.18	1.39		04/20/16 20:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/20/16 20:50	76-13-1	
1,2,4-Trimethylbenzene	**5.9**	ug/m3	1.4	0.17	1.39		04/20/16 20:50	95-63-6	
1,3,5-Trimethylbenzene	**1.9**	ug/m3	1.4	0.25	1.39		04/20/16 20:50	108-67-8	
Vinyl acetate	**2.4**	ug/m3	1.0	0.46	1.39		04/20/16 20:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/20/16 20:50	75-01-4	
m&p-Xylene	**7.2**	ug/m3	2.5	1.1	1.39		04/20/16 20:50	179601-23-1	
o-Xylene	**2.5**	ug/m3	1.2	0.49	1.39		04/20/16 20:50	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-3 **Lab ID: 10344419003** Collected: 04/11/16 09:33 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**42.8**	ug/m3	3.3	1.2	1.39		04/20/16 21:21	67-64-1	
Benzene	ND	ug/m3	0.90	0.17	1.39		04/20/16 21:21	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		04/20/16 21:21	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/20/16 21:21	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		04/20/16 21:21	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/20/16 21:21	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/20/16 21:21	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		04/20/16 21:21	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		04/20/16 21:21	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		04/20/16 21:21	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/20/16 21:21	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/20/16 21:21	75-00-3	
Chloroform	ND	ug/m3	1.4	0.26	1.39		04/20/16 21:21	67-66-3	
Chloromethane	**1.3**	ug/m3	0.58	0.15	1.39		04/20/16 21:21	74-87-3	
Cyclohexane	**1.4**	ug/m3	0.97	0.44	1.39		04/20/16 21:21	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		04/20/16 21:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/20/16 21:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/20/16 21:21	95-50-1	
1,3-Dichlorobenzene	**94.3**	ug/m3	1.7	0.74	1.39		04/20/16 21:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		04/20/16 21:21	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.4	0.67	1.39		04/20/16 21:21	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/20/16 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/20/16 21:21	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/20/16 21:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		04/20/16 21:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/20/16 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/20/16 21:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/20/16 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		04/20/16 21:21	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/20/16 21:21	76-14-2	
Ethanol	**120**	ug/m3	2.7	0.37	1.39		04/20/16 21:21	64-17-5	
Ethyl acetate	**3.0**	ug/m3	1.0	0.48	1.39		04/20/16 21:21	141-78-6	
Ethylbenzene	**1.7**	ug/m3	1.2	0.59	1.39		04/20/16 21:21	100-41-4	
4-Ethyltoluene	**1.5**	ug/m3	1.4	0.26	1.39		04/20/16 21:21	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		04/20/16 21:21	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.1	0.90	1.39		04/20/16 21:21	87-68-3	
n-Hexane	**3.2**	ug/m3	1.0	0.50	1.39		04/20/16 21:21	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/20/16 21:21	591-78-6	
Methylene Chloride	**9.3**	ug/m3	4.9	0.75	1.39		04/20/16 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/20/16 21:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		04/20/16 21:21	1634-04-4	
Naphthalene	ND	ug/m3	7.4	0.42	1.39		04/20/16 21:21	91-20-3	
2-Propanol	**470**	ug/m3	3.5	0.33	1.39		04/20/16 21:21	67-63-0	
Propylene	ND	ug/m3	1.2	0.19	1.39		04/20/16 21:21	115-07-1	SS
Styrene	ND	ug/m3	1.2	0.27	1.39		04/20/16 21:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/20/16 21:21	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-3 **Lab ID: 10344419003** Collected: 04/11/16 09:33 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2.4**	ug/m3	0.96	0.39	1.39		04/20/16 21:21	127-18-4	
Tetrahydrofuran	**1.5**	ug/m3	0.83	0.17	1.39		04/20/16 21:21	109-99-9	
Toluene	**4.3**	ug/m3	1.1	0.21	1.39		04/20/16 21:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/20/16 21:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		04/20/16 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/20/16 21:21	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.76	0.38	1.39		04/20/16 21:21	79-01-6	
Trichlorofluoromethane	**7.4**	ug/m3	1.6	0.18	1.39		04/20/16 21:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/20/16 21:21	76-13-1	
1,2,4-Trimethylbenzene	**5.4**	ug/m3	1.4	0.17	1.39		04/20/16 21:21	95-63-6	
1,3,5-Trimethylbenzene	**1.8**	ug/m3	1.4	0.25	1.39		04/20/16 21:21	108-67-8	
Vinyl acetate	**1.9**	ug/m3	1.0	0.46	1.39		04/20/16 21:21	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/20/16 21:21	75-01-4	
m&p-Xylene	**7.8**	ug/m3	2.5	1.1	1.39		04/20/16 21:21	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.2	0.49	1.39		04/20/16 21:21	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-4 **Lab ID: 10344419004** Collected: 04/11/16 09:34 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**99.9**	ug/m3	3.2	1.1	1.34		04/20/16 21:53	67-64-1	
Benzene	**1.2**	ug/m3	0.87	0.16	1.34		04/20/16 21:53	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		04/20/16 21:53	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		04/20/16 21:53	75-27-4	
Bromoform	ND	ug/m3	2.8	1.2	1.34		04/20/16 21:53	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		04/20/16 21:53	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		04/20/16 21:53	106-99-0	
2-Butanone (MEK)	**12.3**	ug/m3	4.0	0.31	1.34		04/20/16 21:53	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		04/20/16 21:53	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		04/20/16 21:53	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		04/20/16 21:53	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		04/20/16 21:53	75-00-3	
Chloroform	ND	ug/m3	1.3	0.25	1.34		04/20/16 21:53	67-66-3	
Chloromethane	**1.4**	ug/m3	0.56	0.14	1.34		04/20/16 21:53	74-87-3	
Cyclohexane	**9.9**	ug/m3	0.94	0.42	1.34		04/20/16 21:53	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		04/20/16 21:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		04/20/16 21:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		04/20/16 21:53	95-50-1	
1,3-Dichlorobenzene	**23.4**	ug/m3	1.6	0.71	1.34		04/20/16 21:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		04/20/16 21:53	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.4	0.64	1.34		04/20/16 21:53	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		04/20/16 21:53	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		04/20/16 21:53	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		04/20/16 21:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		04/20/16 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		04/20/16 21:53	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		04/20/16 21:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		04/20/16 21:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		04/20/16 21:53	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		04/20/16 21:53	76-14-2	
Ethanol	**129**	ug/m3	2.6	0.36	1.34		04/20/16 21:53	64-17-5	
Ethyl acetate	**20.1**	ug/m3	0.98	0.47	1.34		04/20/16 21:53	141-78-6	
Ethylbenzene	**2.1**	ug/m3	1.2	0.57	1.34		04/20/16 21:53	100-41-4	
4-Ethyltoluene	**1.6**	ug/m3	1.3	0.25	1.34		04/20/16 21:53	622-96-8	
n-Heptane	**1.4**	ug/m3	1.1	0.37	1.34		04/20/16 21:53	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	14.5	0.87	1.34		04/20/16 21:53	87-68-3	
n-Hexane	**21.2**	ug/m3	0.96	0.48	1.34		04/20/16 21:53	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		04/20/16 21:53	591-78-6	
Methylene Chloride	**93.9**	ug/m3	4.7	0.73	1.34		04/20/16 21:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		04/20/16 21:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		04/20/16 21:53	1634-04-4	
Naphthalene	ND	ug/m3	7.1	0.41	1.34		04/20/16 21:53	91-20-3	
2-Propanol	**359**	ug/m3	3.4	0.32	1.34		04/20/16 21:53	67-63-0	
Propylene	ND	ug/m3	1.2	0.18	1.34		04/20/16 21:53	115-07-1	SS
Styrene	**2.2**	ug/m3	1.2	0.26	1.34		04/20/16 21:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		04/20/16 21:53	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-4 **Lab ID: 10344419004** Collected: 04/11/16 09:34 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**1.3**	ug/m3	0.92	0.37	1.34		04/20/16 21:53	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		04/20/16 21:53	109-99-9	
Toluene	**34.2**	ug/m3	1.0	0.21	1.34		04/20/16 21:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.1	1.2	1.34		04/20/16 21:53	120-82-1	
1,1,1-Trichloroethane	**2.6**	ug/m3	1.5	0.33	1.34		04/20/16 21:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		04/20/16 21:53	79-00-5	
Trichloroethene	**10.3**	ug/m3	0.74	0.37	1.34		04/20/16 21:53	79-01-6	
Trichlorofluoromethane	**13.5**	ug/m3	1.5	0.18	1.34		04/20/16 21:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		04/20/16 21:53	76-13-1	
1,2,4-Trimethylbenzene	**5.5**	ug/m3	1.3	0.17	1.34		04/20/16 21:53	95-63-6	
1,3,5-Trimethylbenzene	**1.7**	ug/m3	1.3	0.25	1.34		04/20/16 21:53	108-67-8	
Vinyl acetate	**1.7**	ug/m3	0.96	0.44	1.34		04/20/16 21:53	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		04/20/16 21:53	75-01-4	
m&p-Xylene	**8.0**	ug/m3	2.4	1.1	1.34		04/20/16 21:53	179601-23-1	
o-Xylene	**2.5**	ug/m3	1.2	0.47	1.34		04/20/16 21:53	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-5 **Lab ID: 10344419005** Collected: 04/11/16 09:35 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**54.0**	ug/m3	3.3	1.2	1.39		04/20/16 22:24	67-64-1	
Benzene	ND	ug/m3	0.90	0.17	1.39		04/20/16 22:24	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		04/20/16 22:24	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		04/20/16 22:24	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		04/20/16 22:24	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		04/20/16 22:24	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		04/20/16 22:24	106-99-0	
2-Butanone (MEK)	**7.0**	ug/m3	4.2	0.32	1.39		04/20/16 22:24	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		04/20/16 22:24	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		04/20/16 22:24	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		04/20/16 22:24	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		04/20/16 22:24	75-00-3	
Chloroform	ND	ug/m3	1.4	0.26	1.39		04/20/16 22:24	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		04/20/16 22:24	74-87-3	
Cyclohexane	**4.0**	ug/m3	0.97	0.44	1.39		04/20/16 22:24	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		04/20/16 22:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		04/20/16 22:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		04/20/16 22:24	95-50-1	
1,3-Dichlorobenzene	**36.8**	ug/m3	1.7	0.74	1.39		04/20/16 22:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		04/20/16 22:24	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.4	0.67	1.39		04/20/16 22:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		04/20/16 22:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		04/20/16 22:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		04/20/16 22:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		04/20/16 22:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		04/20/16 22:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		04/20/16 22:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		04/20/16 22:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		04/20/16 22:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		04/20/16 22:24	76-14-2	
Ethanol	**108**	ug/m3	2.7	0.37	1.39		04/20/16 22:24	64-17-5	
Ethyl acetate	**2.5**	ug/m3	1.0	0.48	1.39		04/20/16 22:24	141-78-6	
Ethylbenzene	**1.6**	ug/m3	1.2	0.59	1.39		04/20/16 22:24	100-41-4	
4-Ethyltoluene	**2.5**	ug/m3	1.4	0.26	1.39		04/20/16 22:24	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		04/20/16 22:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.1	0.90	1.39		04/20/16 22:24	87-68-3	
n-Hexane	**8.7**	ug/m3	1.0	0.50	1.39		04/20/16 22:24	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		04/20/16 22:24	591-78-6	
Methylene Chloride	**8.1**	ug/m3	4.9	0.75	1.39		04/20/16 22:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		04/20/16 22:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		04/20/16 22:24	1634-04-4	
Naphthalene	ND	ug/m3	7.4	0.42	1.39		04/20/16 22:24	91-20-3	
2-Propanol	**311**	ug/m3	3.5	0.33	1.39		04/20/16 22:24	67-63-0	
Propylene	ND	ug/m3	1.2	0.19	1.39		04/20/16 22:24	115-07-1	SS
Styrene	ND	ug/m3	1.2	0.27	1.39		04/20/16 22:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		04/20/16 22:24	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-5 **Lab ID: 10344419005** Collected: 04/11/16 09:35 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**1.0**	ug/m3	0.96	0.39	1.39		04/20/16 22:24	127-18-4	
Tetrahydrofuran	**2.0**	ug/m3	0.83	0.17	1.39		04/20/16 22:24	109-99-9	
Toluene	**6.1**	ug/m3	1.1	0.21	1.39		04/20/16 22:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.3	1.39		04/20/16 22:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		04/20/16 22:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		04/20/16 22:24	79-00-5	
Trichloroethene	**9.5**	ug/m3	0.76	0.38	1.39		04/20/16 22:24	79-01-6	
Trichlorofluoromethane	**5.6**	ug/m3	1.6	0.18	1.39		04/20/16 22:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		04/20/16 22:24	76-13-1	
1,2,4-Trimethylbenzene	**8.0**	ug/m3	1.4	0.17	1.39		04/20/16 22:24	95-63-6	
1,3,5-Trimethylbenzene	**1.9**	ug/m3	1.4	0.25	1.39		04/20/16 22:24	108-67-8	
Vinyl acetate	**1.2**	ug/m3	1.0	0.46	1.39		04/20/16 22:24	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		04/20/16 22:24	75-01-4	
m&p-Xylene	**6.8**	ug/m3	2.5	1.1	1.39		04/20/16 22:24	179601-23-1	
o-Xylene	**2.4**	ug/m3	1.2	0.49	1.39		04/20/16 22:24	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-1 **Lab ID: 10344419006** Collected: 04/12/16 09:49 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**1.7**	ug/m3	1.5	0.72	1.49		04/20/16 15:14	75-71-8	
Chloromethane	ND	ug/m3	0.63	0.16	1.49		04/20/16 15:14	74-87-3	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		04/20/16 15:14	76-14-2	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		04/20/16 15:14	75-01-4	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		04/20/16 15:14	74-83-9	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		04/20/16 15:14	75-00-3	
Trichlorofluoromethane	**16.5**	ug/m3	1.7	0.20	1.49		04/20/16 15:14	75-69-4	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		04/20/16 15:14	75-35-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		04/20/16 15:14	76-13-1	
Methylene Chloride	**39.3**	ug/m3	5.3	0.81	1.49		04/20/16 15:14	75-09-2	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		04/20/16 15:14	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		04/20/16 15:14	156-59-2	
Chloroform	ND	ug/m3	1.5	0.28	1.49		04/20/16 15:14	67-66-3	
1,1,1-Trichloroethane	**5.9**	ug/m3	1.7	0.37	1.49		04/20/16 15:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		04/20/16 15:14	79-00-5	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		04/20/16 15:14	107-06-2	
Benzene	**1.7**	ug/m3	0.97	0.18	1.49		04/20/16 15:14	71-43-2	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		04/20/16 15:14	56-23-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		04/20/16 15:14	78-87-5	
Trichloroethene	**26.9**	ug/m3	0.82	0.41	1.49		04/20/16 15:14	79-01-6	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		04/20/16 15:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.39	1.49		04/20/16 15:14	10061-02-6	
Toluene	**29.8**	ug/m3	1.1	0.23	1.49		04/20/16 15:14	108-88-3	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		04/20/16 15:14	106-93-4	
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		04/20/16 15:14	127-18-4	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		04/20/16 15:14	108-90-7	
Ethylbenzene	**4.6**	ug/m3	1.3	0.63	1.49		04/20/16 15:14	100-41-4	
m&p-Xylene	**16.2**	ug/m3	2.6	1.2	1.49		04/20/16 15:14	179601-23-1	
o-Xylene	**4.9**	ug/m3	1.3	0.52	1.49		04/20/16 15:14	95-47-6	
Styrene	**3.2**	ug/m3	1.3	0.29	1.49		04/20/16 15:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		04/20/16 15:14	79-34-5	
1,3,5-Trimethylbenzene	**4.9**	ug/m3	1.5	0.27	1.49		04/20/16 15:14	108-67-8	
1,2,4-Trimethylbenzene	**17.3**	ug/m3	1.5	0.19	1.49		04/20/16 15:14	95-63-6	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.79	1.49		04/20/16 15:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.49		04/20/16 15:14	106-46-7	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.49		04/20/16 15:14	95-50-1	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.4	1.49		04/20/16 15:14	120-82-1	
Hexachloro-1,3-butadiene	ND	ug/m3	16.2	0.97	1.49		04/20/16 15:14	87-68-3	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		04/20/16 15:14	109-99-9	
Acetone	**84.6**	ug/m3	3.6	1.2	1.49		04/20/16 15:14	67-64-1	
2-Butanone (MEK)	**21.3**	ug/m3	4.5	0.34	1.49		04/20/16 15:14	78-93-3	
n-Hexane	**48.0**	ug/m3	1.1	0.53	1.49		04/20/16 15:14	110-54-3	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		04/20/16 15:14	1634-04-4	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		04/20/16 15:14	124-48-1	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		04/20/16 15:14	106-99-0	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		04/20/16 15:14	75-15-0	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-1 **Lab ID: 10344419006** Collected: 04/12/16 09:49 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Vinyl acetate	**2.7**	ug/m3	1.1	0.49	1.49		04/20/16 15:14	108-05-4	
Cyclohexane	**24.8**	ug/m3	1.0	0.47	1.49		04/20/16 15:14	110-82-7	
Ethyl acetate	**1.8**	ug/m3	1.1	0.52	1.49		04/20/16 15:14	141-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		04/20/16 15:14	108-10-1	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		04/20/16 15:14	591-78-6	
Bromoform	ND	ug/m3	3.1	1.3	1.49		04/20/16 15:14	75-25-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		04/20/16 15:14	156-60-5	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		04/20/16 15:14	75-27-4	
n-Heptane	**2.6**	ug/m3	1.2	0.42	1.49		04/20/16 15:14	142-82-5	
Propylene	ND	ug/m3	1.3	0.20	1.49		04/20/16 15:14	115-07-1	SS
4-Ethyltoluene	**5.2**	ug/m3	1.5	0.28	1.49		04/20/16 15:14	622-96-8	
Naphthalene	ND	ug/m3	7.9	0.45	1.49		04/20/16 15:14	91-20-3	
Ethanol	**26.7**	ug/m3	2.9	0.39	1.49		04/20/16 15:14	64-17-5	
2-Propanol	**5.2**	ug/m3	3.7	0.36	1.49		04/20/16 15:14	67-63-0	
Benzyl chloride	ND	ug/m3	1.6	0.25	1.49		04/20/16 15:14	100-44-7	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-2 **Lab ID: 10344419007** Collected: 04/12/16 09:51 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**110**	ug/m3	5.4	1.9	2.24		04/14/16 20:23	67-64-1	
Benzene	**8.9**	ug/m3	0.73	0.27	2.24		04/14/16 20:23	71-43-2	
Benzyl chloride	ND	ug/m3	5.9	0.37	2.24		04/14/16 20:23	100-44-7	
Bromodichloromethane	ND	ug/m3	3.0	0.43	2.24		04/14/16 20:23	75-27-4	
Bromoform	ND	ug/m3	11.8	2.0	2.24		04/14/16 20:23	75-25-2	
Bromomethane	ND	ug/m3	1.8	0.69	2.24		04/14/16 20:23	74-83-9	
1,3-Butadiene	ND	ug/m3	1.0	0.39	2.24		04/14/16 20:23	106-99-0	
2-Butanone (MEK)	ND	ug/m3	6.7	0.51	2.24		04/14/16 20:23	78-93-3	
Carbon disulfide	ND	ug/m3	1.4	0.23	2.24		04/14/16 20:23	75-15-0	
Carbon tetrachloride	**3.4**	ug/m3	2.9	0.43	2.24		04/14/16 20:23	56-23-5	
Chlorobenzene	ND	ug/m3	2.1	0.30	2.24		04/14/16 20:23	108-90-7	
Chloroethane	ND	ug/m3	1.2	0.43	2.24		04/14/16 20:23	75-00-3	
Chloroform	ND	ug/m3	1.1	0.43	2.24		04/14/16 20:23	67-66-3	
Chloromethane	**4.2**	ug/m3	0.94	0.24	2.24		04/14/16 20:23	74-87-3	
Cyclohexane	**13.9**	ug/m3	1.6	0.71	2.24		04/14/16 20:23	110-82-7	
Dibromochloromethane	ND	ug/m3	19.4	1.9	2.24		04/14/16 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.5	1.7	2.24		04/14/16 20:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.7	1.1	2.24		04/14/16 20:23	95-50-1	
1,3-Dichlorobenzene	**11.0**	ug/m3	6.8	1.2	2.24		04/14/16 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.8	1.1	2.24		04/14/16 20:23	106-46-7	
Dichlorodifluoromethane	**4.0**	ug/m3	2.3	1.1	2.24		04/14/16 20:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.8	0.35	2.24		04/14/16 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.92	0.46	2.24		04/14/16 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.8	0.53	2.24		04/14/16 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.8	0.55	2.24		04/14/16 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.8	0.86	2.24		04/14/16 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.1	0.60	2.24		04/14/16 20:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.1	0.83	2.24		04/14/16 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	5.2	0.58	2.24		04/14/16 20:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.2	0.69	2.24		04/14/16 20:23	76-14-2	
Ethanol	**68.5**	ug/m3	2.2	0.59	2.24		04/14/16 20:23	64-17-5	
Ethyl acetate	ND	ug/m3	1.6	0.78	2.24		04/14/16 20:23	141-78-6	
Ethylbenzene	**6.4**	ug/m3	2.0	0.95	2.24		04/14/16 20:23	100-41-4	
4-Ethyltoluene	**3.3**	ug/m3	2.2	0.42	2.24		04/14/16 20:23	622-96-8	
n-Heptane	**11.5**	ug/m3	1.9	0.62	2.24		04/14/16 20:23	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4.9	1.5	2.24		04/14/16 20:23	87-68-3	
n-Hexane	**263**	ug/m3	1.6	0.80	2.24		04/14/16 20:23	110-54-3	
2-Hexanone	ND	ug/m3	9.3	0.92	2.24		04/14/16 20:23	591-78-6	
Methylene Chloride	ND	ug/m3	212	32.5	60.03		04/17/16 20:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	9.3	0.49	2.24		04/14/16 20:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	8.2	0.68	2.24		04/14/16 20:23	1634-04-4	
Naphthalene	**11.2**	ug/m3	6.0	0.68	2.24		04/14/16 20:23	91-20-3	
2-Propanol	**802**	ug/m3	5.6	0.54	2.24		04/14/16 20:23	67-63-0	
Propylene	ND	ug/m3	0.78	0.30	2.24		04/14/16 20:23	115-07-1	
Styrene	ND	ug/m3	4.8	0.43	2.24		04/14/16 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.6	0.74	2.24		04/14/16 20:23	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-2 **Lab ID: 10344419007** Collected: 04/12/16 09:51 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**13.6**	ug/m3	1.5	0.62	2.24		04/14/16 20:23	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.3	0.27	2.24		04/14/16 20:23	109-99-9	
Toluene	**55.4**	ug/m3	1.7	0.34	2.24		04/14/16 20:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	16.9	2.0	2.24		04/14/16 20:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.5	0.55	2.24		04/14/16 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.2	0.55	2.24		04/14/16 20:23	79-00-5	
Trichloroethene	**12.4**	ug/m3	1.2	0.62	2.24		04/14/16 20:23	79-01-6	
Trichlorofluoromethane	**5.0**	ug/m3	2.6	0.30	2.24		04/14/16 20:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.6	0.67	2.24		04/14/16 20:23	76-13-1	
1,2,4-Trimethylbenzene	**10.3**	ug/m3	2.2	0.28	2.24		04/14/16 20:23	95-63-6	
1,3,5-Trimethylbenzene	**3.2**	ug/m3	2.2	0.41	2.24		04/14/16 20:23	108-67-8	
Vinyl acetate	ND	ug/m3	1.6	0.74	2.24		04/14/16 20:23	108-05-4	
Vinyl chloride	ND	ug/m3	0.58	0.44	2.24		04/14/16 20:23	75-01-4	
m&p-Xylene	**26.9**	ug/m3	4.0	1.8	2.24		04/14/16 20:23	179601-23-1	
o-Xylene	**10.2**	ug/m3	4.9	0.79	2.24		04/14/16 20:23	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-3 **Lab ID: 10344419008** Collected: 04/12/16 09:52 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**72.6**	ug/m3	3.7	1.3	1.55		04/20/16 16:17	67-64-1	
Benzene	ND	ug/m3	1.0	0.19	1.55		04/20/16 16:17	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.26	1.55		04/20/16 16:17	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.30	1.55		04/20/16 16:17	75-27-4	
Bromoform	ND	ug/m3	3.3	1.4	1.55		04/20/16 16:17	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.48	1.55		04/20/16 16:17	74-83-9	
1,3-Butadiene	ND	ug/m3	0.70	0.27	1.55		04/20/16 16:17	106-99-0	
2-Butanone (MEK)	**5.2**	ug/m3	4.6	0.35	1.55		04/20/16 16:17	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	0.16	1.55		04/20/16 16:17	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.99	0.30	1.55		04/20/16 16:17	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.21	1.55		04/20/16 16:17	108-90-7	
Chloroethane	ND	ug/m3	0.84	0.30	1.55		04/20/16 16:17	75-00-3	
Chloroform	ND	ug/m3	1.5	0.29	1.55		04/20/16 16:17	67-66-3	
Chloromethane	**1.9**	ug/m3	0.65	0.17	1.55		04/20/16 16:17	74-87-3	
Cyclohexane	**3.0**	ug/m3	1.1	0.49	1.55		04/20/16 16:17	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.3	1.55		04/20/16 16:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.2	1.55		04/20/16 16:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.79	1.55		04/20/16 16:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.82	1.55		04/20/16 16:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	0.77	1.55		04/20/16 16:17	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.6	0.74	1.55		04/20/16 16:17	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.24	1.55		04/20/16 16:17	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	0.32	1.55		04/20/16 16:17	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.37	1.55		04/20/16 16:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.38	1.55		04/20/16 16:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.60	1.55		04/20/16 16:17	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.42	1.55		04/20/16 16:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.57	1.55		04/20/16 16:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.40	1.55		04/20/16 16:17	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.48	1.55		04/20/16 16:17	76-14-2	
Ethanol	**46.0**	ug/m3	3.0	0.41	1.55		04/20/16 16:17	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.54	1.55		04/20/16 16:17	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	0.66	1.55		04/20/16 16:17	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.6	0.29	1.55		04/20/16 16:17	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.43	1.55		04/20/16 16:17	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	16.8	1.0	1.55		04/20/16 16:17	87-68-3	
n-Hexane	**5.9**	ug/m3	1.1	0.55	1.55		04/20/16 16:17	110-54-3	
2-Hexanone	ND	ug/m3	6.5	0.64	1.55		04/20/16 16:17	591-78-6	
Methylene Chloride	**7.6**	ug/m3	5.5	0.84	1.55		04/20/16 16:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.5	0.34	1.55		04/20/16 16:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.7	0.47	1.55		04/20/16 16:17	1634-04-4	
Naphthalene	ND	ug/m3	8.3	0.47	1.55		04/20/16 16:17	91-20-3	
2-Propanol	ND	ug/m3	3.9	0.37	1.55		04/20/16 16:17	67-63-0	
Propylene	ND	ug/m3	1.4	0.21	1.55		04/20/16 16:17	115-07-1	SS
Styrene	ND	ug/m3	1.3	0.30	1.55		04/20/16 16:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.51	1.55		04/20/16 16:17	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-3 **Lab ID: 10344419008** Collected: 04/12/16 09:52 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.1	0.43	1.55		04/20/16 16:17	127-18-4	
Tetrahydrofuran	**1.2**	ug/m3	0.93	0.18	1.55		04/20/16 16:17	109-99-9	
Toluene	**5.3**	ug/m3	1.2	0.24	1.55		04/20/16 16:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.7	1.4	1.55		04/20/16 16:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.38	1.55		04/20/16 16:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.85	0.38	1.55		04/20/16 16:17	79-00-5	
Trichloroethene	**2.5**	ug/m3	0.85	0.43	1.55		04/20/16 16:17	79-01-6	
Trichlorofluoromethane	**7.7**	ug/m3	1.8	0.20	1.55		04/20/16 16:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	0.47	1.55		04/20/16 16:17	76-13-1	
1,2,4-Trimethylbenzene	**3.0**	ug/m3	1.5	0.19	1.55		04/20/16 16:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.28	1.55		04/20/16 16:17	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.51	1.55		04/20/16 16:17	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	0.30	1.55		04/20/16 16:17	75-01-4	
m&p-Xylene	**2.9**	ug/m3	2.7	1.2	1.55		04/20/16 16:17	179601-23-1	
o-Xylene	ND	ug/m3	1.4	0.54	1.55		04/20/16 16:17	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-4 **Lab ID: 10344419009** Collected: 04/12/16 09:45 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**55.6**	ug/m3	3.6	1.2	1.49		04/20/16 17:20	67-64-1	
Benzene	**2.5**	ug/m3	0.97	0.18	1.49		04/20/16 17:20	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.25	1.49		04/20/16 17:20	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		04/20/16 17:20	75-27-4	
Bromoform	ND	ug/m3	3.1	1.3	1.49		04/20/16 17:20	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		04/20/16 17:20	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		04/20/16 17:20	106-99-0	
2-Butanone (MEK)	**14.7**	ug/m3	4.5	0.34	1.49		04/20/16 17:20	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		04/20/16 17:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		04/20/16 17:20	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		04/20/16 17:20	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		04/20/16 17:20	75-00-3	
Chloroform	ND	ug/m3	1.5	0.28	1.49		04/20/16 17:20	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.16	1.49		04/20/16 17:20	74-87-3	
Cyclohexane	**18.9**	ug/m3	1.0	0.47	1.49		04/20/16 17:20	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		04/20/16 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		04/20/16 17:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.49		04/20/16 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.79	1.49		04/20/16 17:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.49		04/20/16 17:20	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.5	0.72	1.49		04/20/16 17:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		04/20/16 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		04/20/16 17:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		04/20/16 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		04/20/16 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		04/20/16 17:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		04/20/16 17:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		04/20/16 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.39	1.49		04/20/16 17:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		04/20/16 17:20	76-14-2	
Ethanol	**78.4**	ug/m3	2.9	0.39	1.49		04/20/16 17:20	64-17-5	
Ethyl acetate	**4.8**	ug/m3	1.1	0.52	1.49		04/20/16 17:20	141-78-6	
Ethylbenzene	**4.5**	ug/m3	1.3	0.63	1.49		04/20/16 17:20	100-41-4	
4-Ethyltoluene	**4.1**	ug/m3	1.5	0.28	1.49		04/20/16 17:20	622-96-8	
n-Heptane	**2.8**	ug/m3	1.2	0.42	1.49		04/20/16 17:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	16.2	0.97	1.49		04/20/16 17:20	87-68-3	
n-Hexane	**35.5**	ug/m3	1.1	0.53	1.49		04/20/16 17:20	110-54-3	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		04/20/16 17:20	591-78-6	
Methylene Chloride	**62.9**	ug/m3	5.3	0.81	1.49		04/20/16 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		04/20/16 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		04/20/16 17:20	1634-04-4	
Naphthalene	ND	ug/m3	7.9	0.45	1.49		04/20/16 17:20	91-20-3	
2-Propanol	**9.2**	ug/m3	3.7	0.36	1.49		04/20/16 17:20	67-63-0	
Propylene	ND	ug/m3	1.3	0.20	1.49		04/20/16 17:20	115-07-1	SS
Styrene	**2.9**	ug/m3	1.3	0.29	1.49		04/20/16 17:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		04/20/16 17:20	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-4 **Lab ID: 10344419009** Collected: 04/12/16 09:45 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		04/20/16 17:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		04/20/16 17:20	109-99-9	
Toluene	**31.8**	ug/m3	1.1	0.23	1.49		04/20/16 17:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.4	1.49		04/20/16 17:20	120-82-1	
1,1,1-Trichloroethane	**2.9**	ug/m3	1.7	0.37	1.49		04/20/16 17:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		04/20/16 17:20	79-00-5	
Trichloroethene	**15.2**	ug/m3	0.82	0.41	1.49		04/20/16 17:20	79-01-6	
Trichlorofluoromethane	**13.8**	ug/m3	1.7	0.20	1.49		04/20/16 17:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		04/20/16 17:20	76-13-1	
1,2,4-Trimethylbenzene	**14.4**	ug/m3	1.5	0.19	1.49		04/20/16 17:20	95-63-6	
1,3,5-Trimethylbenzene	**4.0**	ug/m3	1.5	0.27	1.49		04/20/16 17:20	108-67-8	
Vinyl acetate	**2.3**	ug/m3	1.1	0.49	1.49		04/20/16 17:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		04/20/16 17:20	75-01-4	
m&p-Xylene	**16.9**	ug/m3	2.6	1.2	1.49		04/20/16 17:20	179601-23-1	
o-Xylene	**4.9**	ug/m3	1.3	0.52	1.49		04/20/16 17:20	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: AA-1 **Lab ID: 10344419010** Collected: 04/12/16 09:56 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	ND	ug/m3	3.5	1.2	1.44		04/20/16 17:52	67-64-1	
Benzene	ND	ug/m3	0.94	0.18	1.44		04/20/16 17:52	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.24	1.44		04/20/16 17:52	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		04/20/16 17:52	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		04/20/16 17:52	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		04/20/16 17:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/20/16 17:52	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.33	1.44		04/20/16 17:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		04/20/16 17:52	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		04/20/16 17:52	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/20/16 17:52	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/20/16 17:52	75-00-3	
Chloroform	ND	ug/m3	1.4	0.27	1.44		04/20/16 17:52	67-66-3	
Chloromethane	**2.4**	ug/m3	0.60	0.16	1.44		04/20/16 17:52	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.46	1.44		04/20/16 17:52	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		04/20/16 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/20/16 17:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		04/20/16 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.44		04/20/16 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		04/20/16 17:52	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.5	0.69	1.44		04/20/16 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/20/16 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		04/20/16 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		04/20/16 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		04/20/16 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		04/20/16 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		04/20/16 17:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/20/16 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.37	1.44		04/20/16 17:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/20/16 17:52	76-14-2	
Ethanol	ND	ug/m3	2.8	0.38	1.44		04/20/16 17:52	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		04/20/16 17:52	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.61	1.44		04/20/16 17:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.27	1.44		04/20/16 17:52	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		04/20/16 17:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.6	0.94	1.44		04/20/16 17:52	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		04/20/16 17:52	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		04/20/16 17:52	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		04/20/16 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		04/20/16 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		04/20/16 17:52	1634-04-4	
Naphthalene	ND	ug/m3	7.7	0.44	1.44		04/20/16 17:52	91-20-3	
2-Propanol	ND	ug/m3	3.6	0.35	1.44		04/20/16 17:52	67-63-0	
Propylene	ND	ug/m3	1.3	0.19	1.44		04/20/16 17:52	115-07-1	SS
Styrene	ND	ug/m3	1.3	0.28	1.44		04/20/16 17:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/20/16 17:52	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: AA-1 **Lab ID: 10344419010** Collected: 04/12/16 09:56 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.99	0.40	1.44		04/20/16 17:52	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		04/20/16 17:52	109-99-9	
Toluene	ND	ug/m3	1.1	0.22	1.44		04/20/16 17:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	1.3	1.44		04/20/16 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		04/20/16 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/20/16 17:52	79-00-5	
Trichloroethene	ND	ug/m3	0.79	0.40	1.44		04/20/16 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.19	1.44		04/20/16 17:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/20/16 17:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.44		04/20/16 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.26	1.44		04/20/16 17:52	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		04/20/16 17:52	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/20/16 17:52	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.1	1.44		04/20/16 17:52	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.51	1.44		04/20/16 17:52	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-1 Can Cert **Lab ID: 10344419011** Collected: 04/11/16 09:31 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 20:55	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 20:55	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 20:55	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 20:55	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 20:55	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 20:55	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 20:55	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 20:55	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 20:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 20:55	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 20:55	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 20:55	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 20:55	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 20:55	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 20:55	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 20:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 20:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 20:55	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 20:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 20:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 20:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 20:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 20:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 20:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 20:55	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 20:55	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 20:55	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 20:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 20:55	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 20:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 20:55	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 20:55	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 20:55	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 20:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 20:55	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 20:55	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 20:55	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 20:55	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 20:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 20:55	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-1 Can Cert **Lab ID: 10344419011** Collected: 04/11/16 09:31 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 20:55	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 20:55	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 20:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 20:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 20:55	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 20:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 20:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 20:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 20:55	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 20:55	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 20:55	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 20:55	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 20:55	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-2 Can Cert **Lab ID: 10344419012** Collected: 04/11/16 09:32 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 19:59	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 19:59	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 19:59	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 19:59	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 19:59	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 19:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 19:59	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 19:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 19:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 19:59	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 19:59	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 19:59	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 19:59	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 19:59	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 19:59	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 19:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 19:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 19:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 19:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 19:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 19:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 19:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 19:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 19:59	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 19:59	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 19:59	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 19:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 19:59	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 19:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 19:59	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 19:59	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 19:59	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 19:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 19:59	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 19:59	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 19:59	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 19:59	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 19:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 19:59	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-2 Can Cert **Lab ID: 10344419012** Collected: 04/11/16 09:32 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 19:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 19:59	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 19:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 19:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 19:59	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 19:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 19:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 19:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 19:59	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 19:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 19:59	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 19:59	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 19:59	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-3 Can Cert **Lab ID: 10344419013** Collected: 04/11/16 09:33 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 19:31	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 19:31	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 19:31	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 19:31	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 19:31	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 19:31	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 19:31	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 19:31	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 19:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 19:31	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 19:31	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 19:31	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 19:31	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 19:31	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 19:31	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 19:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 19:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 19:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 19:31	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 19:31	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 19:31	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 19:31	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 19:31	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 19:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 19:31	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 19:31	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 19:31	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 19:31	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 19:31	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 19:31	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 19:31	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 19:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 19:31	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-3 Can Cert **Lab ID: 10344419013** Collected: 04/11/16 09:33 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 19:31	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 19:31	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 19:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 19:31	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 19:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 19:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 19:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 19:31	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 19:31	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 19:31	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 19:31	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 19:31	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-4 Can Cert **Lab ID: 10344419014** Collected: 04/11/16 09:34 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 19:04	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 19:04	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 19:04	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 19:04	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 19:04	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 19:04	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 19:04	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 19:04	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 19:04	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 19:04	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 19:04	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 19:04	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 19:04	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 19:04	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 19:04	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 19:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 19:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 19:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 19:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 19:04	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 19:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 19:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 19:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 19:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 19:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 19:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 19:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 19:04	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 19:04	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 19:04	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 19:04	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 19:04	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 19:04	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 19:04	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 19:04	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 19:04	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 19:04	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 19:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 19:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 19:04	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 19:04	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 19:04	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 19:04	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 19:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 19:04	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-4 Can Cert **Lab ID: 10344419014** Collected: 04/11/16 09:34 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 19:04	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 19:04	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 19:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 19:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 19:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 19:04	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 19:04	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 19:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 19:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 19:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 19:04	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 19:04	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 19:04	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 19:04	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 19:04	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-5 Can Cert **Lab ID: 10344419015** Collected: 04/11/16 09:35 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 21:23	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 21:23	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 21:23	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 21:23	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 21:23	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 21:23	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 21:23	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 21:23	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 21:23	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 21:23	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 21:23	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 21:23	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 21:23	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 21:23	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 21:23	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 21:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 21:23	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 21:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 21:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 21:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 21:23	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 21:23	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 21:23	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 21:23	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 21:23	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 21:23	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 21:23	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 21:23	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 21:23	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 21:23	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 21:23	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 21:23	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 21:23	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 21:23	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-SSV-5 Can Cert **Lab ID: 10344419015** Collected: 04/11/16 09:35 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 21:23	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 21:23	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 21:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 21:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 21:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 21:23	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 21:23	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 21:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 21:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 21:23	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 21:23	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 21:23	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 21:23	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 21:23	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-1 Can Cert **Lab ID: 10344419016** Collected: 04/12/16 09:49 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/05/16 18:36	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/05/16 18:36	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/05/16 18:36	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/05/16 18:36	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/05/16 18:36	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/05/16 18:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/05/16 18:36	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/05/16 18:36	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/05/16 18:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/05/16 18:36	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/05/16 18:36	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/05/16 18:36	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/05/16 18:36	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/05/16 18:36	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/05/16 18:36	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/05/16 18:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/05/16 18:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/05/16 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/05/16 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/05/16 18:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/05/16 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/05/16 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/05/16 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/05/16 18:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/05/16 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/05/16 18:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/05/16 18:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/05/16 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/05/16 18:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/05/16 18:36	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/05/16 18:36	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/05/16 18:36	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/05/16 18:36	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/05/16 18:36	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/05/16 18:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/05/16 18:36	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/05/16 18:36	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/05/16 18:36	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/05/16 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/05/16 18:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/05/16 18:36	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/05/16 18:36	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/05/16 18:36	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/05/16 18:36	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/05/16 18:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/05/16 18:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-1 Can Cert **Lab ID: 10344419016** Collected: 04/12/16 09:49 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/05/16 18:36	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/05/16 18:36	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/05/16 18:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/05/16 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/05/16 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/05/16 18:36	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/05/16 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/05/16 18:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/05/16 18:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/05/16 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/05/16 18:36	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/05/16 18:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/05/16 18:36	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/05/16 18:36	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/05/16 18:36	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-2 Can Cert **Lab ID: 10344419017** Collected: 04/12/16 09:51 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.51	1		03/25/16 07:57	67-64-1	
Benzene	ND	ug/m3	0.65	0.16	1		03/25/16 07:57	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.53	1		03/25/16 07:57	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.070	1		03/25/16 07:57	75-27-4	
Bromoform	ND	ug/m3	2.1	0.11	1		03/25/16 07:57	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.62	1		03/25/16 07:57	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.29	1		03/25/16 07:57	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1.5	1		03/25/16 07:57	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.038	1		03/25/16 07:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.068	1		03/25/16 07:57	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.47	1		03/25/16 07:57	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.031	1		03/25/16 07:57	75-00-3	
Chloroform	ND	ug/m3	0.99	0.25	1		03/25/16 07:57	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.021	1		03/25/16 07:57	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.052	1		03/25/16 07:57	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.87	1		03/25/16 07:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.78	1		03/25/16 07:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.61	1		03/25/16 07:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.1	0.61	1		03/25/16 07:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.062	1		03/25/16 07:57	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.50	1		03/25/16 07:57	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.41	1		03/25/16 07:57	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.046	1		03/25/16 07:57	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.051	1		03/25/16 07:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/25/16 07:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.041	1		03/25/16 07:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.47	1		03/25/16 07:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		03/25/16 07:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.46	1		03/25/16 07:57	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.71	1		03/25/16 07:57	76-14-2	
Ethanol	ND	ug/m3	1.9	0.96	1		03/25/16 07:57	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.37	1		03/25/16 07:57	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.44	1		03/25/16 07:57	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.50	1		03/25/16 07:57	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.42	1		03/25/16 07:57	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.8	5.4	1		03/25/16 07:57	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.055	1		03/25/16 07:57	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	1		03/25/16 07:57	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1.8	1		03/25/16 07:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	2.1	1		03/25/16 07:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1.8	1		03/25/16 07:57	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	1		03/25/16 07:57	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.48	1		03/25/16 07:57	67-63-0	
Propylene	ND	ug/m3	0.88	0.023	1		03/25/16 07:57	115-07-1	
Styrene	ND	ug/m3	2.2	0.43	1		03/25/16 07:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.5	0.35	1		03/25/16 07:57	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-2 Can Cert **Lab ID: 10344419017** Collected: 04/12/16 09:51 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.34	1		03/25/16 07:57	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.5	0.030	1		03/25/16 07:57	109-99-9	
Toluene	ND	ug/m3	0.77	0.38	1		03/25/16 07:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	3.8	1		03/25/16 07:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.56	1		03/25/16 07:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.056	1		03/25/16 07:57	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.27	1		03/25/16 07:57	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.68	1		03/25/16 07:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.78	1		03/25/16 07:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.5	0.052	1		03/25/16 07:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.50	1		03/25/16 07:57	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.045	1		03/25/16 07:57	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.027	1		03/25/16 07:57	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.88	1		03/25/16 07:57	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.44	1		03/25/16 07:57	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-3 Can Cert **Lab ID: 10344419018** Collected: 04/12/16 09:52 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/06/16 10:10	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/06/16 10:10	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/06/16 10:10	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/06/16 10:10	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/06/16 10:10	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/06/16 10:10	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/06/16 10:10	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/06/16 10:10	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/06/16 10:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/06/16 10:10	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/06/16 10:10	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/06/16 10:10	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/06/16 10:10	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/06/16 10:10	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/06/16 10:10	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/06/16 10:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/06/16 10:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/06/16 10:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/06/16 10:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/06/16 10:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/06/16 10:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/06/16 10:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/06/16 10:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/06/16 10:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/06/16 10:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/06/16 10:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/06/16 10:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/06/16 10:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/06/16 10:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/06/16 10:10	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/06/16 10:10	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/06/16 10:10	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/06/16 10:10	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/06/16 10:10	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/06/16 10:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/06/16 10:10	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/06/16 10:10	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/06/16 10:10	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/06/16 10:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/06/16 10:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/06/16 10:10	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/06/16 10:10	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/06/16 10:10	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/06/16 10:10	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/06/16 10:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/06/16 10:10	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-3 Can Cert **Lab ID: 10344419018** Collected: 04/12/16 09:52 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/06/16 10:10	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/06/16 10:10	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/06/16 10:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/06/16 10:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/06/16 10:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/06/16 10:10	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/06/16 10:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/06/16 10:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/06/16 10:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/06/16 10:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/06/16 10:10	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/06/16 10:10	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/06/16 10:10	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/06/16 10:10	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/06/16 10:10	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-4 Can Cert **Lab ID: 10344419019** Collected: 04/12/16 09:45 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		04/04/16 17:31	67-64-1	
Benzene	ND	ug/m3	0.32	0.12	1		04/04/16 17:31	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		04/04/16 17:31	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		04/04/16 17:31	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		04/04/16 17:31	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		04/04/16 17:31	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		04/04/16 17:31	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		04/04/16 17:31	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		04/04/16 17:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.2	0.19	1		04/04/16 17:31	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		04/04/16 17:31	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		04/04/16 17:31	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		04/04/16 17:31	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		04/04/16 17:31	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		04/04/16 17:31	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		04/04/16 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		04/04/16 17:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		04/04/16 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		04/04/16 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		04/04/16 17:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		04/04/16 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		04/04/16 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		04/04/16 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		04/04/16 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		04/04/16 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		04/04/16 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		04/04/16 17:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		04/04/16 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	0.26	1		04/04/16 17:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		04/04/16 17:31	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		04/04/16 17:31	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		04/04/16 17:31	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		04/04/16 17:31	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		04/04/16 17:31	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		04/04/16 17:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	0.65	1		04/04/16 17:31	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		04/04/16 17:31	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		04/04/16 17:31	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		04/04/16 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		04/04/16 17:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		04/04/16 17:31	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		04/04/16 17:31	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		04/04/16 17:31	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		04/04/16 17:31	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		04/04/16 17:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		04/04/16 17:31	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: M-IA-4 Can Cert **Lab ID: 10344419019** Collected: 04/12/16 09:45 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		04/04/16 17:31	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		04/04/16 17:31	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		04/04/16 17:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		04/04/16 17:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		04/04/16 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		04/04/16 17:31	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		04/04/16 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		04/04/16 17:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		04/04/16 17:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		04/04/16 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		04/04/16 17:31	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		04/04/16 17:31	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		04/04/16 17:31	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		04/04/16 17:31	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		04/04/16 17:31	95-47-6	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: AA-1 Can Cert **Lab ID: 10344419020** Collected: 04/12/16 09:56 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Acetone	ND	ug/m3	2.4	0.83	1		03/22/16 19:56	67-64-1	
Benzene	ND	ug/m3	32.5	0.12	1		03/22/16 19:56	71-43-2	
Benzyl chloride	ND	ug/m3	1.0	0.17	1		03/22/16 19:56	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	0.19	1		03/22/16 19:56	75-27-4	
Bromoform	ND	ug/m3	2.1	0.90	1		03/22/16 19:56	75-25-2	
Bromomethane	ND	ug/m3	0.79	0.31	1		03/22/16 19:56	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	0.18	1		03/22/16 19:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	0.23	1		03/22/16 19:56	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	0.10	1		03/22/16 19:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	63.9	0.19	1		03/22/16 19:56	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	0.13	1		03/22/16 19:56	108-90-7	
Chloroethane	ND	ug/m3	0.54	0.19	1		03/22/16 19:56	75-00-3	
Chloroform	ND	ug/m3	0.50	0.19	1		03/22/16 19:56	67-66-3	
Chloromethane	ND	ug/m3	0.42	0.11	1		03/22/16 19:56	74-87-3	
Cyclohexane	ND	ug/m3	0.70	0.32	1		03/22/16 19:56	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	0.86	1		03/22/16 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.77	1		03/22/16 19:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	0.51	1		03/22/16 19:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	0.53	1		03/22/16 19:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.2	0.50	1		03/22/16 19:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	0.48	1		03/22/16 19:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	0.16	1		03/22/16 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	0.20	1		03/22/16 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	0.24	1		03/22/16 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	0.25	1		03/22/16 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	0.38	1		03/22/16 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	0.27	1		03/22/16 19:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	0.37	1		03/22/16 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	0.26	1		03/22/16 19:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	0.31	1		03/22/16 19:56	76-14-2	
Ethanol	ND	ug/m3	0.96	0.26	1		03/22/16 19:56	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	0.35	1		03/22/16 19:56	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	0.42	1		03/22/16 19:56	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.0	0.19	1		03/22/16 19:56	622-96-8	
n-Heptane	ND	ug/m3	0.83	0.28	1		03/22/16 19:56	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.2	0.65	1		03/22/16 19:56	87-68-3	
n-Hexane	ND	ug/m3	0.72	0.36	1		03/22/16 19:56	110-54-3	
2-Hexanone	ND	ug/m3	4.2	0.41	1		03/22/16 19:56	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	0.54	1		03/22/16 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	0.22	1		03/22/16 19:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	0.30	1		03/22/16 19:56	1634-04-4	
Naphthalene	ND	ug/m3	2.7	0.30	1		03/22/16 19:56	91-20-3	
2-Propanol	ND	ug/m3	2.5	0.24	1		03/22/16 19:56	67-63-0	
Propylene	ND	ug/m3	0.35	0.14	1		03/22/16 19:56	115-07-1	
Styrene	ND	ug/m3	0.87	0.19	1		03/22/16 19:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	0.33	1		03/22/16 19:56	79-34-5	

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ANALYTICAL RESULTS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Sample: AA-1 Can Cert **Lab ID: 10344419020** Collected: 04/12/16 09:56 Received: 04/12/16 10:22 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	0.69	0.28	1		03/22/16 19:56	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	0.12	1		03/22/16 19:56	109-99-9	
Toluene	ND	ug/m3	0.77	0.15	1		03/22/16 19:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.91	1		03/22/16 19:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	0.25	1		03/22/16 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	0.25	1		03/22/16 19:56	79-00-5	
Trichloroethene	ND	ug/m3	0.55	0.28	1		03/22/16 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	0.13	1		03/22/16 19:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	0.30	1		03/22/16 19:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	0.12	1		03/22/16 19:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	0.18	1		03/22/16 19:56	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	0.33	1		03/22/16 19:56	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	0.20	1		03/22/16 19:56	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	0.79	1		03/22/16 19:56	179601-23-1	
o-Xylene	ND	ug/m3	0.88	0.35	1		03/22/16 19:56	95-47-6	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

QC Batch: AIR/25702
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10344419007

METHOD BLANK: 2231761
Matrix: Air
Associated Lab Samples: 10344419007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	04/14/16 11:36	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	04/14/16 11:36	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	04/14/16 11:36	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	04/14/16 11:36	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	04/14/16 11:36	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	04/14/16 11:36	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	0.91	04/14/16 11:36	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	04/14/16 11:36	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	04/14/16 11:36	
1,2-Dichlorobenzene	ug/m3	ND	1.2	0.51	04/14/16 11:36	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	04/14/16 11:36	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	04/14/16 11:36	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	04/14/16 11:36	
1,3-Butadiene	ug/m3	ND	0.45	0.18	04/14/16 11:36	
1,3-Dichlorobenzene	ug/m3	ND	3.1	0.53	04/14/16 11:36	
1,4-Dichlorobenzene	ug/m3	ND	3.1	0.50	04/14/16 11:36	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	04/14/16 11:36	
2-Hexanone	ug/m3	ND	4.2	0.41	04/14/16 11:36	
2-Propanol	ug/m3	ND	2.5	0.24	04/14/16 11:36	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	04/14/16 11:36	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	04/14/16 11:36	
Acetone	ug/m3	ND	2.4	0.83	04/14/16 11:36	
Benzene	ug/m3	ND	0.32	0.12	04/14/16 11:36	
Benzyl chloride	ug/m3	ND	2.6	0.17	04/14/16 11:36	
Bromodichloromethane	ug/m3	ND	1.4	0.19	04/14/16 11:36	
Bromoform	ug/m3	ND	5.3	0.90	04/14/16 11:36	
Bromomethane	ug/m3	ND	0.79	0.31	04/14/16 11:36	
Carbon disulfide	ug/m3	ND	0.63	0.10	04/14/16 11:36	
Carbon tetrachloride	ug/m3	ND	1.3	0.19	04/14/16 11:36	
Chlorobenzene	ug/m3	ND	0.94	0.13	04/14/16 11:36	
Chloroethane	ug/m3	ND	0.54	0.19	04/14/16 11:36	
Chloroform	ug/m3	ND	0.50	0.19	04/14/16 11:36	
Chloromethane	ug/m3	ND	0.42	0.11	04/14/16 11:36	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	04/14/16 11:36	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	04/14/16 11:36	
Cyclohexane	ug/m3	ND	0.70	0.32	04/14/16 11:36	
Dibromochloromethane	ug/m3	ND	8.7	0.86	04/14/16 11:36	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	04/14/16 11:36	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	04/14/16 11:36	
Ethanol	ug/m3	ND	0.96	0.26	04/14/16 11:36	
Ethyl acetate	ug/m3	ND	0.73	0.35	04/14/16 11:36	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

METHOD BLANK: 2231761 Matrix: Air
Associated Lab Samples: 10344419007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	0.42	04/14/16 11:36	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	0.65	04/14/16 11:36	
m&p-Xylene	ug/m3	ND	1.8	0.79	04/14/16 11:36	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	04/14/16 11:36	
Methylene Chloride	ug/m3	ND	3.5	0.54	04/14/16 11:36	
n-Heptane	ug/m3	ND	0.83	0.28	04/14/16 11:36	
n-Hexane	ug/m3	ND	0.72	0.36	04/14/16 11:36	
Naphthalene	ug/m3	ND	2.7	0.30	04/14/16 11:36	
o-Xylene	ug/m3	ND	2.2	0.35	04/14/16 11:36	
Propylene	ug/m3	ND	0.35	0.14	04/14/16 11:36	
Styrene	ug/m3	ND	2.2	0.19	04/14/16 11:36	
Tetrachloroethene	ug/m3	ND	0.69	0.28	04/14/16 11:36	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	04/14/16 11:36	
Toluene	ug/m3	ND	0.77	0.15	04/14/16 11:36	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	04/14/16 11:36	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	0.26	04/14/16 11:36	
Trichloroethene	ug/m3	ND	0.55	0.28	04/14/16 11:36	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	04/14/16 11:36	
Vinyl acetate	ug/m3	ND	0.72	0.33	04/14/16 11:36	
Vinyl chloride	ug/m3	ND	0.26	0.20	04/14/16 11:36	

LABORATORY CONTROL SAMPLE: 2231762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.5	118	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.9	112	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	65.0	117	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	88.3	113	66-131	
1,1-Dichloroethane	ug/m3	41.2	47.7	116	62-139	
1,1-Dichloroethene	ug/m3	40.3	47.1	117	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.5	83.0	110	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.7	115	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.5	120	63-150	
1,2-Dichlorobenzene	ug/m3	61.2	69.7	114	57-141	
1,2-Dichloroethane	ug/m3	41.2	48.8	119	61-144	
1,2-Dichloropropane	ug/m3	47	54.7	116	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	59.4	119	54-147	
1,3-Butadiene	ug/m3	22.5	26.0	116	61-140	
1,3-Dichlorobenzene	ug/m3	61.2	69.4	114	51-150	
1,4-Dichlorobenzene	ug/m3	61.2	71.2	116	57-143	
2-Butanone (MEK)	ug/m3	150	193	129	66-144	
2-Hexanone	ug/m3	208	257	123	63-147	
2-Propanol	ug/m3	125	148	118	54-146	
4-Ethyltoluene	ug/m3	50	57.2	114	56-150	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

LABORATORY CONTROL SAMPLE: 2231762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	208	263	126	58-150	
Acetone	ug/m3	121	114	95	46-140	
Benzene	ug/m3	32.5	40.1	123	62-141	
Benzyl chloride	ug/m3	52.5	59.3	113	66-138	
Bromodichloromethane	ug/m3	68.2	84.4	124	58-149	
Bromoform	ug/m3	105	122	116	61-150	
Bromomethane	ug/m3	39.5	44.6	113	58-136	
Carbon disulfide	ug/m3	31.7	33.3	105	59-135	
Carbon tetrachloride	ug/m3	64	69.4	108	60-149	
Chlorobenzene	ug/m3	46.8	59.5	127	60-150	
Chloroethane	ug/m3	26.8	30.2	113	61-136	
Chloroform	ug/m3	49.7	58.5	118	65-138	
Chloromethane	ug/m3	21	25.7	122	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	47.9	119	65-139	
cis-1,3-Dichloropropene	ug/m3	46.2	58.2	126	61-149	
Cyclohexane	ug/m3	35	44.2	126	64-134	
Dibromochloromethane	ug/m3	86.6	102	118	59-150	
Dichlorodifluoromethane	ug/m3	50.3	57.2	114	63-134	
Dichlorotetrafluoroethane	ug/m3	71.1	85.9	121	62-134	
Ethanol	ug/m3	95.8	110	115	50-144	
Ethyl acetate	ug/m3	36.6	43.3	118	55-146	
Ethylbenzene	ug/m3	44.2	53.5	121	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	140	129	42-150	
m&p-Xylene	ug/m3	88.3	106	120	59-146	
Methyl-tert-butyl ether	ug/m3	183	219	120	64-135	
Methylene Chloride	ug/m3	177	189	107	64-128	
n-Heptane	ug/m3	41.7	45.8	110	64-140	
n-Hexane	ug/m3	35.8	35.0	98	50-138	
Naphthalene	ug/m3	53.3	58.2	109	46-146	
o-Xylene	ug/m3	44.2	47.8	108	54-149	
Propylene	ug/m3	17.5	19.7	113	58-135	
Styrene	ug/m3	43.3	50.7	117	54-150	
Tetrachloroethene	ug/m3	69	86.8	126	60-142	
Tetrahydrofuran	ug/m3	30	37.3	124	56-143	
Toluene	ug/m3	38.3	45.1	118	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	50.7	126	67-137	
trans-1,3-Dichloropropene	ug/m3	46.2	49.5	107	59-145	
Trichloroethene	ug/m3	54.6	62.8	115	60-144	
Trichlorofluoromethane	ug/m3	57.1	62.6	109	59-134	
Vinyl acetate	ug/m3	35.8	43.7	122	55-143	
Vinyl chloride	ug/m3	26	30.5	117	63-135	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

QC Batch: AIR/25736 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10344419001, 10344419002, 10344419003, 10344419004, 10344419005, 10344419006, 10344419008, 10344419009, 10344419010

METHOD BLANK: 2236916 Matrix: Air
Associated Lab Samples: 10344419001, 10344419002, 10344419003, 10344419004, 10344419005, 10344419006, 10344419008, 10344419009, 10344419010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	04/20/16 11:34	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	0.33	04/20/16 11:34	
1,1,2-Trichloroethane	ug/m3	ND	0.55	0.25	04/20/16 11:34	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	0.30	04/20/16 11:34	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	04/20/16 11:34	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	04/20/16 11:34	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	0.91	04/20/16 11:34	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	0.12	04/20/16 11:34	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	0.77	04/20/16 11:34	
1,2-Dichlorobenzene	ug/m3	ND	1.2	0.51	04/20/16 11:34	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	04/20/16 11:34	
1,2-Dichloropropane	ug/m3	ND	0.94	0.27	04/20/16 11:34	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	0.18	04/20/16 11:34	
1,3-Butadiene	ug/m3	ND	0.45	0.18	04/20/16 11:34	
1,3-Dichlorobenzene	ug/m3	ND	1.2	0.53	04/20/16 11:34	
1,4-Dichlorobenzene	ug/m3	ND	1.2	0.50	04/20/16 11:34	
2-Butanone (MEK)	ug/m3	ND	3.0	0.23	04/20/16 11:34	
2-Hexanone	ug/m3	ND	4.2	0.41	04/20/16 11:34	
2-Propanol	ug/m3	ND	2.5	0.24	04/20/16 11:34	
4-Ethyltoluene	ug/m3	ND	1.0	0.19	04/20/16 11:34	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	0.22	04/20/16 11:34	
Acetone	ug/m3	ND	2.4	0.83	04/20/16 11:34	
Benzene	ug/m3	ND	0.65	0.12	04/20/16 11:34	
Benzyl chloride	ug/m3	ND	1.0	0.17	04/20/16 11:34	
Bromodichloromethane	ug/m3	ND	1.4	0.19	04/20/16 11:34	
Bromoform	ug/m3	ND	2.1	0.90	04/20/16 11:34	
Bromomethane	ug/m3	ND	0.79	0.31	04/20/16 11:34	
Carbon disulfide	ug/m3	ND	0.63	0.10	04/20/16 11:34	
Carbon tetrachloride	ug/m3	ND	0.64	0.19	04/20/16 11:34	
Chlorobenzene	ug/m3	ND	0.94	0.13	04/20/16 11:34	
Chloroethane	ug/m3	ND	0.54	0.19	04/20/16 11:34	
Chloroform	ug/m3	ND	0.99	0.19	04/20/16 11:34	
Chloromethane	ug/m3	ND	0.42	0.11	04/20/16 11:34	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	04/20/16 11:34	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	0.37	04/20/16 11:34	
Cyclohexane	ug/m3	ND	0.70	0.32	04/20/16 11:34	
Dibromochloromethane	ug/m3	ND	1.7	0.86	04/20/16 11:34	
Dichlorodifluoromethane	ug/m3	ND	1.0	0.48	04/20/16 11:34	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	0.31	04/20/16 11:34	
Ethanol	ug/m3	ND	1.9	0.26	04/20/16 11:34	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

METHOD BLANK: 2236916 Matrix: Air

Associated Lab Samples: 10344419001, 10344419002, 10344419003, 10344419004, 10344419005, 10344419006, 10344419008, 10344419009, 10344419010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	0.35	04/20/16 11:34	
Ethylbenzene	ug/m3	ND	0.88	0.42	04/20/16 11:34	
Hexachloro-1,3-butadiene	ug/m3	ND	10.8	0.65	04/20/16 11:34	
m&p-Xylene	ug/m3	ND	1.8	0.79	04/20/16 11:34	
Methyl-tert-butyl ether	ug/m3	ND	3.7	0.30	04/20/16 11:34	
Methylene Chloride	ug/m3	ND	3.5	0.54	04/20/16 11:34	
n-Heptane	ug/m3	ND	0.83	0.28	04/20/16 11:34	
n-Hexane	ug/m3	ND	0.72	0.36	04/20/16 11:34	
Naphthalene	ug/m3	ND	5.3	0.30	04/20/16 11:34	
o-Xylene	ug/m3	ND	0.88	0.35	04/20/16 11:34	
Propylene	ug/m3	ND	0.88	0.14	04/20/16 11:34	SS
Styrene	ug/m3	ND	0.87	0.19	04/20/16 11:34	
Tetrachloroethene	ug/m3	ND	0.69	0.28	04/20/16 11:34	
Tetrahydrofuran	ug/m3	ND	0.60	0.12	04/20/16 11:34	
Toluene	ug/m3	ND	0.77	0.15	04/20/16 11:34	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	04/20/16 11:34	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	0.26	04/20/16 11:34	
Trichloroethene	ug/m3	ND	0.55	0.28	04/20/16 11:34	
Trichlorofluoromethane	ug/m3	ND	1.1	0.13	04/20/16 11:34	
Vinyl acetate	ug/m3	ND	0.72	0.33	04/20/16 11:34	
Vinyl chloride	ug/m3	ND	0.26	0.20	04/20/16 11:34	

LABORATORY CONTROL SAMPLE: 2236917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.7	93	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	68.8	99	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	56.9	103	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.8	97	66-131	
1,1-Dichloroethane	ug/m3	41.2	39.1	95	62-139	
1,1-Dichloroethene	ug/m3	40.3	37.7	94	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.5	72.1	95	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	51.5	103	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	78.6	101	63-150	
1,2-Dichlorobenzene	ug/m3	61.2	62.3	102	57-141	
1,2-Dichloroethane	ug/m3	41.2	36.7	89	61-144	
1,2-Dichloropropane	ug/m3	47	48.1	102	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	52.0	104	54-147	
1,3-Butadiene	ug/m3	22.5	22.1	98	61-140	
1,3-Dichlorobenzene	ug/m3	61.2	64.1	105	51-150	
1,4-Dichlorobenzene	ug/m3	61.2	64.7	106	57-143	
2-Butanone (MEK)	ug/m3	150	163	109	66-144	
2-Hexanone	ug/m3	208	221	106	63-147	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

LABORATORY CONTROL SAMPLE: 2236917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	125	136	109	54-146	
4-Ethyltoluene	ug/m3	50	55.4	111	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	208	222	107	58-150	
Acetone	ug/m3	121	127	105	46-140	
Benzene	ug/m3	32.5	32.5	100	62-141	
Benzyl chloride	ug/m3	52.5	53.7	102	66-138	
Bromodichloromethane	ug/m3	68.2	67.9	100	58-149	
Bromoform	ug/m3	105	111	106	61-150	
Bromomethane	ug/m3	39.5	38.0	96	58-136	
Carbon disulfide	ug/m3	31.7	30.0	95	59-135	
Carbon tetrachloride	ug/m3	64	59.3	93	60-149	
Chlorobenzene	ug/m3	46.8	49.1	105	60-150	
Chloroethane	ug/m3	26.8	26.3	98	61-136	
Chloroform	ug/m3	49.7	45.4	91	65-138	
Chloromethane	ug/m3	21	22.1	105	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	40.4	100	65-139	
cis-1,3-Dichloropropene	ug/m3	46.2	47.9	104	61-149	
Cyclohexane	ug/m3	35	35.0	100	64-134	
Dibromochloromethane	ug/m3	86.6	88.3	102	59-150	
Dichlorodifluoromethane	ug/m3	50.3	47.0	93	63-134	
Dichlorotetrafluoroethane	ug/m3	71.1	66.1	93	62-134	
Ethanol	ug/m3	95.8	102	106	50-144	
Ethyl acetate	ug/m3	36.6	35.1	96	55-146	
Ethylbenzene	ug/m3	44.2	44.8	101	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	110	101	42-150	
m&p-Xylene	ug/m3	88.3	96.8	110	59-146	
Methyl-tert-butyl ether	ug/m3	183	184	100	64-135	
Methylene Chloride	ug/m3	177	189	107	64-128	
n-Heptane	ug/m3	41.7	40.8	98	64-140	
n-Hexane	ug/m3	35.8	44.3	124	50-138	
Naphthalene	ug/m3	53.3	42.0	79	46-146	
o-Xylene	ug/m3	44.2	44.0	100	54-149	
Propylene	ug/m3	17.5	18.0	103	58-135	SS
Styrene	ug/m3	43.3	47.7	110	54-150	
Tetrachloroethene	ug/m3	69	68.8	100	60-142	
Tetrahydrofuran	ug/m3	30	29.4	98	56-143	
Toluene	ug/m3	38.3	40.5	106	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	40.3	100	67-137	
trans-1,3-Dichloropropene	ug/m3	46.2	48.9	106	59-145	
Trichloroethene	ug/m3	54.6	56.1	103	60-144	
Trichlorofluoromethane	ug/m3	57.1	54.3	95	59-134	
Vinyl acetate	ug/m3	35.8	35.5	99	55-143	
Vinyl chloride	ug/m3	26	28.2	109	63-135	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

SAMPLE DUPLICATE: 2237559

Parameter	Units	10344419006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	5.9	6.1	4	25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	17.3	17.7	2	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	4.9	5.1	2	25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	21.3	21.0	1	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	5.2	5.4	5	25	
4-Ethyltoluene	ug/m3	5.2	5.0	2	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	84.6	83.3	2	25	
Benzene	ug/m3	1.7	1.7	2	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	1.6		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	24.8	24.9	1	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	1.7	1.8	4	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	26.7	28.5	6	25	
Ethyl acetate	ug/m3	1.8	1.6	7	25	
Ethylbenzene	ug/m3	4.6	4.7	0	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	16.2	16.5	2	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	39.3	38.0	3	25	
n-Heptane	ug/m3	2.6	2.9	10	25	

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QUALITY CONTROL DATA

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

SAMPLE DUPLICATE: 2237559

Parameter	Units	10344419006 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	48.0	47.7	1	25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	4.9	4.8	1	25	
Propylene	ug/m3	ND	ND		25	SS
Styrene	ug/m3	3.2	3.1	5	25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	29.8	29.8	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	26.9	27.7	3	25	
Trichlorofluoromethane	ug/m3	16.5	15.9	3	25	
Vinyl acetate	ug/m3	2.7	2.8	2	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10344419001
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419002
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419003
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419004
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419005
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419006
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419007
[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

Sample: 10344419008
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419009
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10344419010
[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP Solvent Plum
Pace Project No.: 10344419

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10344419001	**M-SSV-1**	TO-15	AIR/25736		
10344419002	**M-SSV-2**	TO-15	AIR/25736		
10344419003	**M-SSV-3**	TO-15	AIR/25736		
10344419004	**M-SSV-4**	TO-15	AIR/25736		
10344419005	**M-SSV-5**	TO-15	AIR/25736		
10344419006	**M-IA-1**	TO-15	AIR/25736		
10344419007	**M-IA-2**	TO-15	AIR/25702		
10344419008	**M-IA-3**	TO-15	AIR/25736		
10344419009	**M-IA-4**	TO-15	AIR/25736		
10344419010	**AA-1**	TO-15	AIR/25736		
10344419011	**M-SSV-1 Can Cert**	TO-15	AIR/25683		
10344419012	**M-SSV-2 Can Cert**	TO-15	AIR/25683		
10344419013	**M-SSV-3 Can Cert**	TO-15	AIR/25683		
10344419014	**M-SSV-4 Can Cert**	TO-15	AIR/25683		
10344419015	**M-SSV-5 Can Cert**	TO-15	AIR/25683		
10344419016	**M-IA-1 Can Cert**	TO-15	AIR/25683		
10344419017	**M-IA-2 Can Cert**	TO-15	AIR/25683		
10344419018	**M-IA-3 Can Cert**	TO-15	AIR/25683		
10344419019	**M-IA-4 Can Cert**	TO-15	AIR/25683		
10344419020	**AA-1 Can Cert**	TO-15	AIR/25683		

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10344419

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM	Report To: Tony Coryell	Attention: same
Address: 800 LaSalle Ave. Suite 500 Minneapolis, MN 55402	Copy To: benjamin.klaus@aecom.com	Company Name:
		Address:
Email To: tony.coryell@aecom.com	Purchase Order No.: 3000015334	Pace Quote Reference:
Phone: 612-376-2000 Fax: —	Project Name: SLP Solvent Plum	Pace Project Manager/Sales Rep. Carol Davy
Requested Due Date/TAT: std	Project Number: 60482513	Pace Profile #:

Program

☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State _____

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other___

Method:

ITEM #	Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	M-SSV-1			4-11-16	0847	4-11-16	0931	-30	-3	0074									X		001, 011
2	M-SSV-2				0847		0932	-30	-2	0261											002, 012
3	M-SSV-3				0849		0933	-30	-2	1668											003, 013
4	M-SSV-4				0850		0934	-25	-2	1583											004, 014
5	M-SSV-5				0850		0935	-28	0	0506											005, 015
6	M-IA-1				0859	4-12-16	949	-30	-4	1557											006, 016
7	M-IA-2				0900		951	-30	-11	0559											007, 017
8	M-IA-3				0901		952	-29	-5	1523											008, 018
9	M-IA-4				0901		945	-24	-2	1505											009, 019
10	AA-1				0903		0956	-28	-4	0805											010, 020
11																					
12																					

Comments:

M-IA-2 regulator did not change in 1 hr from 0845-0951

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ben Klaus / AECOM	4-12-16	1022	[signature] PACE	4-12-16	1022

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Klaus

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/12/16

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10344419

10344419

Courier: ☐ Fed Ex ☐ UPS ☐ Speedee ☒ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 4/12/16

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
SSV-1	0074	0679			
SSV-2	0261	0919			
SSV-3	1668	0805			
SSV-4	1583	0618			
SSV-5	4/12/16 ~~1506~~ 0500	1116			
IA-1	1557	0861			
IA-2	0559	0523			
IA-3	1523	0375			
IA-4	4/12/16 ~~1585~~ 0798	1025			
AA-1	0805	0216			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: David Randall, Pace Date/Time: 4/12/16

Comments/Resolution:

Pressure on can 007 was -12 inHg upon receipt. This is enough sample to analyze.

Project Manager Review: Carol Doug **Date:** 4/12/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11122.D
Report Date: 21-Apr-2016 14:02

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419001
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 20:18

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.810	6.51	J
2. 66-25-1	Hexanal	7.549	0.973	NJ
3. 541-05-9	Cyclotrisiloxane, hexamethy	7.777	1.80	NJ
4. 80-56-8	.alpha.-Pinene	10.436	0.264	NJ
5. 108-67-8	Benzene, 1,3,5-trimethyl-	11.276	0.535	NJ
6. 3387-41-5	Bicyclo[3.1.0]hexane, 4-met	11.337	0.499	NJ
7. 62108-23-0	Decane, 2,5,6-trimethyl-	11.388	2.50	NJ
8.	Unknown	12.404	0.125	J
9.	Unknown	13.304	0.308	J
10. 112-40-3	Dodecane	13.944	0.0764	NJ

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11122.D
Report Date: 21-Apr-2016 14:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11122.D
Lab Smp Id: 10344419001
Inj Date : 20-APR-2016 20:18
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 22
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

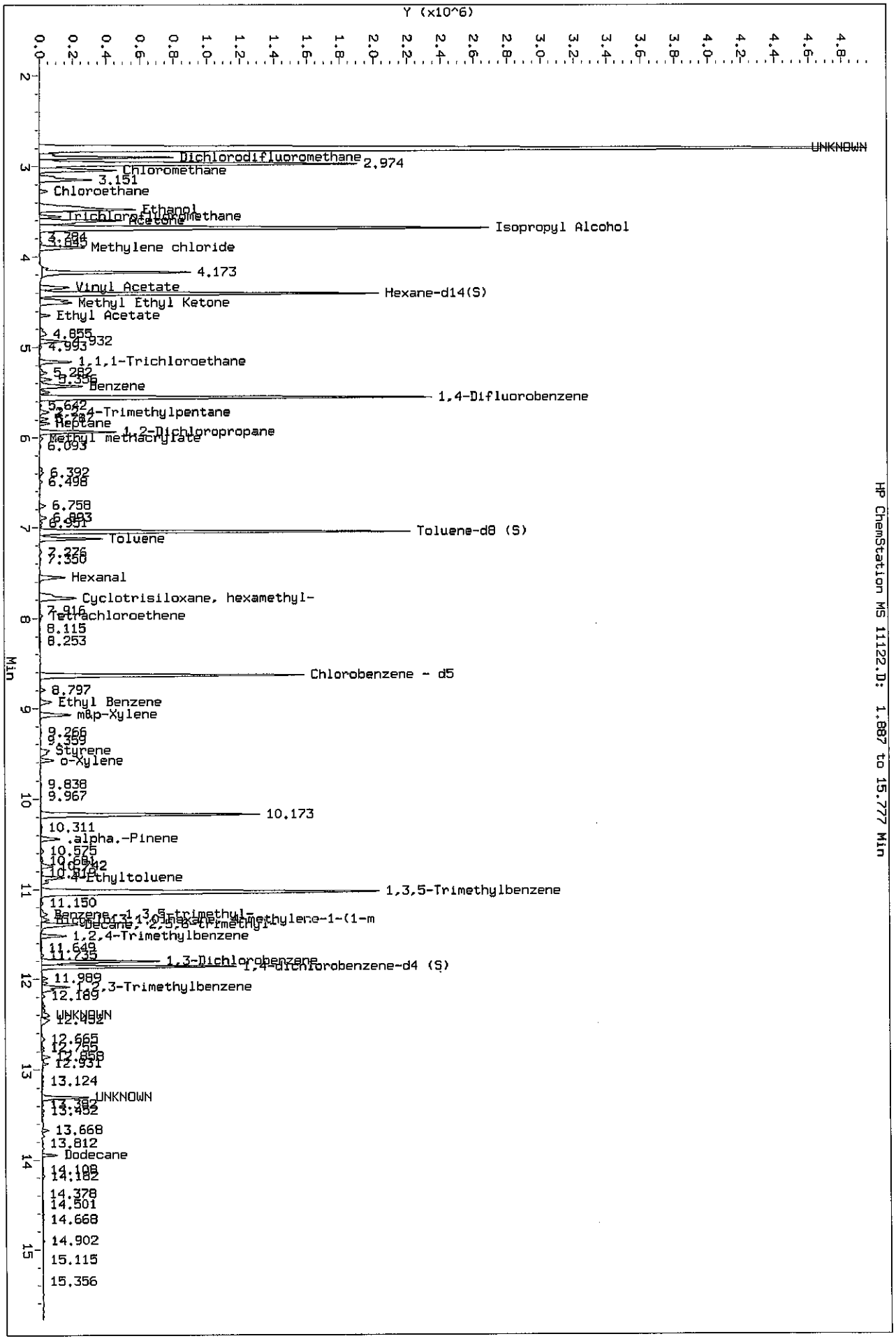
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.925	1210207	0.428
61 Tetrachloroethene	7.970	44404	0.100
72 4-Ethyltoluene	10.919	323844	0.274
75 1,2,4-Trimethylbenzene	11.520	251536	0.917
82 1,2,3-Trimethylbenzene	12.044	356256	0.170

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.810	13231187	4.68351604	6.51	0		0	3
Hexanal				CAS #: 66-25-1			
7.549	309527	0.70027763	0.973	80	NBS75K.1	63409	61
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
7.777	573605	1.29773262	1.80	91	NBS75K.1	70586	61

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11122.D
Report Date: 21-Apr-2016 14:02

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
.alpha.-Pinene					CAS #: 80-56-8		
10.436	224446	0.18960556	0.264	94	NBS75K.l	6680	72
Benzene, 1,3,5-trimethyl-					CAS #: 108-67-8		
11.276	105620	0.38502297	0.535	87	NBS75K.l	64570	75
Bicyclo[3.1.0]hexane, 4-methylene-1-(1-m					CAS #: 3387-41-5		
11.337	98452	0.35889384	0.499	91	NBS75K.l	65753	75
Decane, 2,5,6-trimethyl-					CAS #: 62108-23-0		
11.388	493409	1.79865505	2.50	72	NBS75K.l	19019	75
Unknown					CAS #:		
12.404	188805	0.08997635	0.125	0		0	82
Unknown					CAS #:		
13.304	464560	0.22138893	0.308	0		0	82
Dodecane					CAS #: 112-40-3		
13.944	115360	0.05497531	0.0764	87	NBS75K.l	68251	82

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11122.D
Injection Date: 20-APR-2016 20:18
Instrument: 10airB.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10airB.i\042016.b\11123.D
Report Date: 21-Apr-2016 14:03

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419002
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 20:50

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.848	15.7	J
2.		Unknown	2.993	1.58	J
3.	71-36-3	1-Butanol	5.279	0.736	NJ
4.	589-34-4	Hexane, 3-methyl-	5.501	0.516	NJ
5.	66-25-1	Hexanal	7.549	1.26	NJ
6.	541-05-9	Cyclotrisiloxane, hexamethy	7.790	77.1	NJ
7.	80-56-8	.alpha.-Pinene	10.439	0.395	NJ
8.		Unknown	11.391	2.89	J
9.	5989-27-5	D-Limonene	12.086	0.617	NJ
10.		Unknown	13.304	3.48	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11123.D
Report Date: 21-Apr-2016 14:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11123.D
Lab Smp Id: 10344419002
Inj Date : 20-APR-2016 20:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 23
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

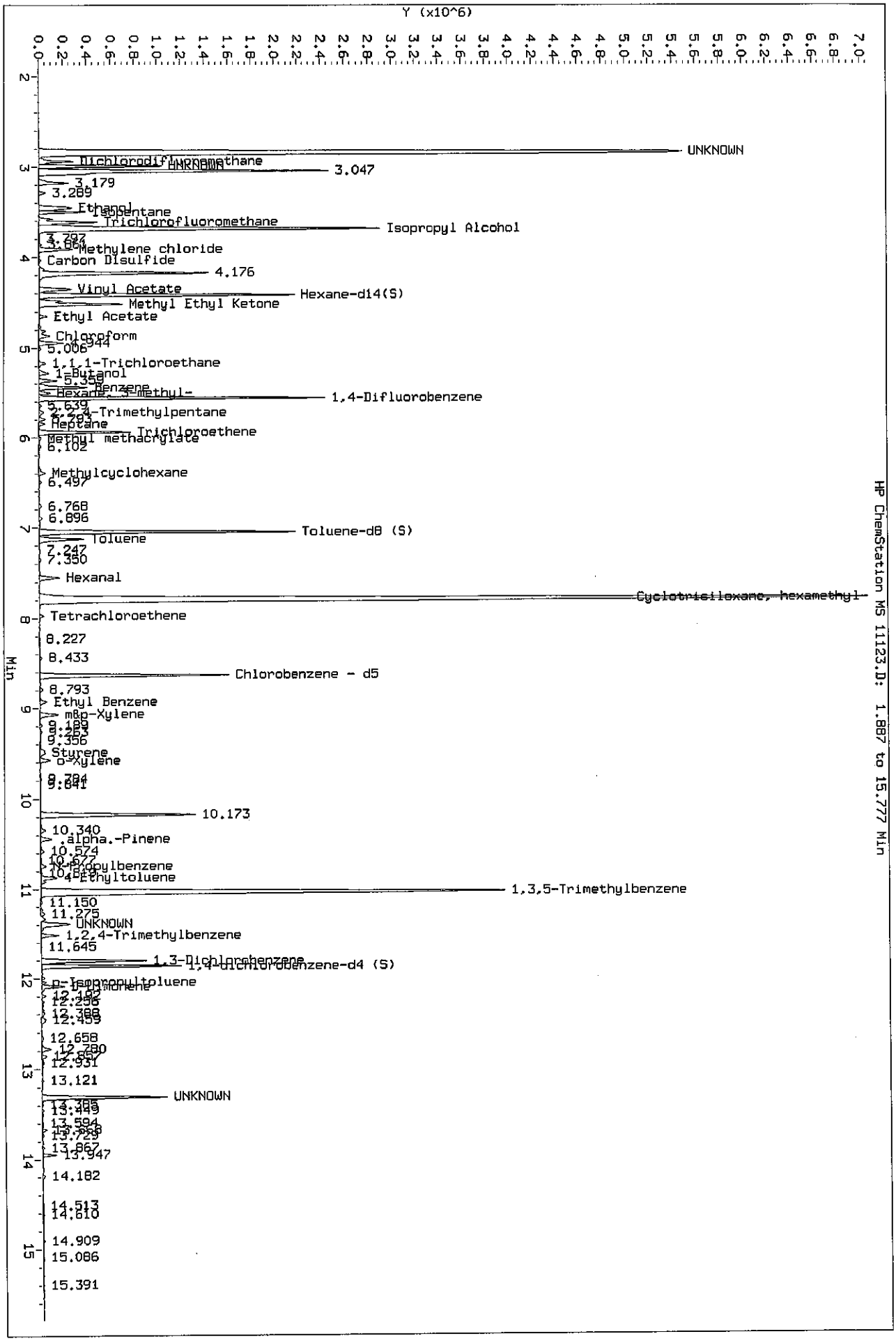
Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
	3 Dichlorodifluoromethane	2.964	456307	0.346
	37 1,1,1-Trichloroethane	5.166	109655	0.370
*	43 1,4-Difluorobenzene	5.559	3983489	10.000
	61 Tetrachloroethene	7.970	73780	0.227
	71 N-Propylbenzene	10.745	94117	0.145
	75 1,2,4-Trimethylbenzene	11.520	231750	0.846
	81 p-Isopropyltoluene	11.992	81859	0.115

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.848	14930360	11.3284458	15.7	0		0	3
Unknown				CAS #:			
2.993	1495506	1.13471864	1.58	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11123.D
Report Date: 21-Apr-2016 14:03

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
1-Butanol				CAS #: 71-36-3			
5.279	156857	0.52978769	0.736	78	NBS75K.l	62579	37
Hexane, 3-methyl-				CAS #: 589-34-4			
5.501	147837	0.37112469	0.516	80	NBS75K.l	1593	43
Hexanal				CAS #: 66-25-1			
7.549	296134	0.90974484	1.26	86	NBS75K.l	63410	61
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
7.790	18056960	55.4721867	77.1	72	NBS75K.l	27918	61
.alpha.-Pinene				CAS #: 80-56-8			
10.439	183620	0.28384492	0.395	97	NBS75K.l	65808	71
Unknown				CAS #:			
11.391	569734	2.07975379	2.89	0		0	75
D-Limonene				CAS #: 5989-27-5			
12.086	314699	0.44374613	0.617	94	NBS75K.l	6664	81
Unknown				CAS #:			
13.304	1773276	2.50043409	3.48	0		0	81


Data File: \\192.168.10.12\chem\10airB.i\042016.b\11123.D
Injection Date: 20-APR-2016 20:50
Instrument: 10airB.i
Client Sample ID:
HP ChemStation MS 11123.D: 1.887 to 15.777 Min
Y (x10^6)
Min
UNKNOWN
Dichlorodifluoromethane
UNKNOWN
3.047
3.179
3.289
Ethanol
Isopentane
Trichlorofluoromethane
Isopropyl Alcohol
3.797
3.864
Methylene chloride
Carbon Disulfide
4.176
Vinyl Acetate
Hexane-d14(S)
Methyl Ethyl Ketone
Ethyl Acetate
Chloroform
5.006
1,1,1-Trichloroethane
1-Butanol
5.358
Benzene
Hexane, 3-methyl-
1,4-Difluorobenzene
5.639
2,2,4-Trimethylpentane
5.793
Heptane
Trichloroethene
Methyl methacrylate
6.102
Methylcyclohexane
6.497
6.768
6.896
Toluene-d8 (S)
Toluene
7.247
7.350
Hexanal
Cyclotrisiloxane, hexamethyl-
Tetrachloroethene
8.227
8.433
Chlorobenzene - d5
8.793
Ethyl Benzene
m&p-Xylene
9.189
9.253
9.356
Styrene
o-Xylene
9.784
9.841
10.173
10.340
.alpha.-Pinene
10.574
10.677
n-Propylbenzene
10.828
4-Ethyltoluene
1,3,5-Trimethylbenzene
11.150
11.275
UNKNOWN
1,2,4-Trimethylbenzene
11.645
1,3-Dichlorobenzene
1,4-dichlorobenzene-d4 (S)
p-Isopropyltoluene
D-Limonene
12.192
12.256
12.388
12.459
12.658
12.780
12.867
12.931
13.121
UNKNOWN
13.385
13.449
13.594
13.658
13.729
13.867
13.947
14.182
14.513
14.610
14.909
15.086
15.391

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11124.D
Report Date: 21-Apr-2016 14:03

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419003
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 21:21

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.845	26.2	J
2.	75-28-5	Isobutane	3.093	6.83	NJ
3.		Unknown	3.282	7.63	J
4.		Unknown	7.552	0.935	J
5.	541-05-9	Cyclotrisiloxane, hexamethy	7.781	8.39	NJ
6.		Unknown	8.440	0.659	J
7.	80-56-8	.alpha.-Pinene	10.440	0.164	NJ
8.	124-18-5	Decane	11.388	3.41	NJ
9.		Unknown	13.308	0.859	J
10.	112-40-3	Dodecane	13.944	0.0904	NJ

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11124.D
Report Date: 21-Apr-2016 14:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11124.D
Lab Smp Id: 10344419003
Inj Date : 20-APR-2016 21:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 24
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

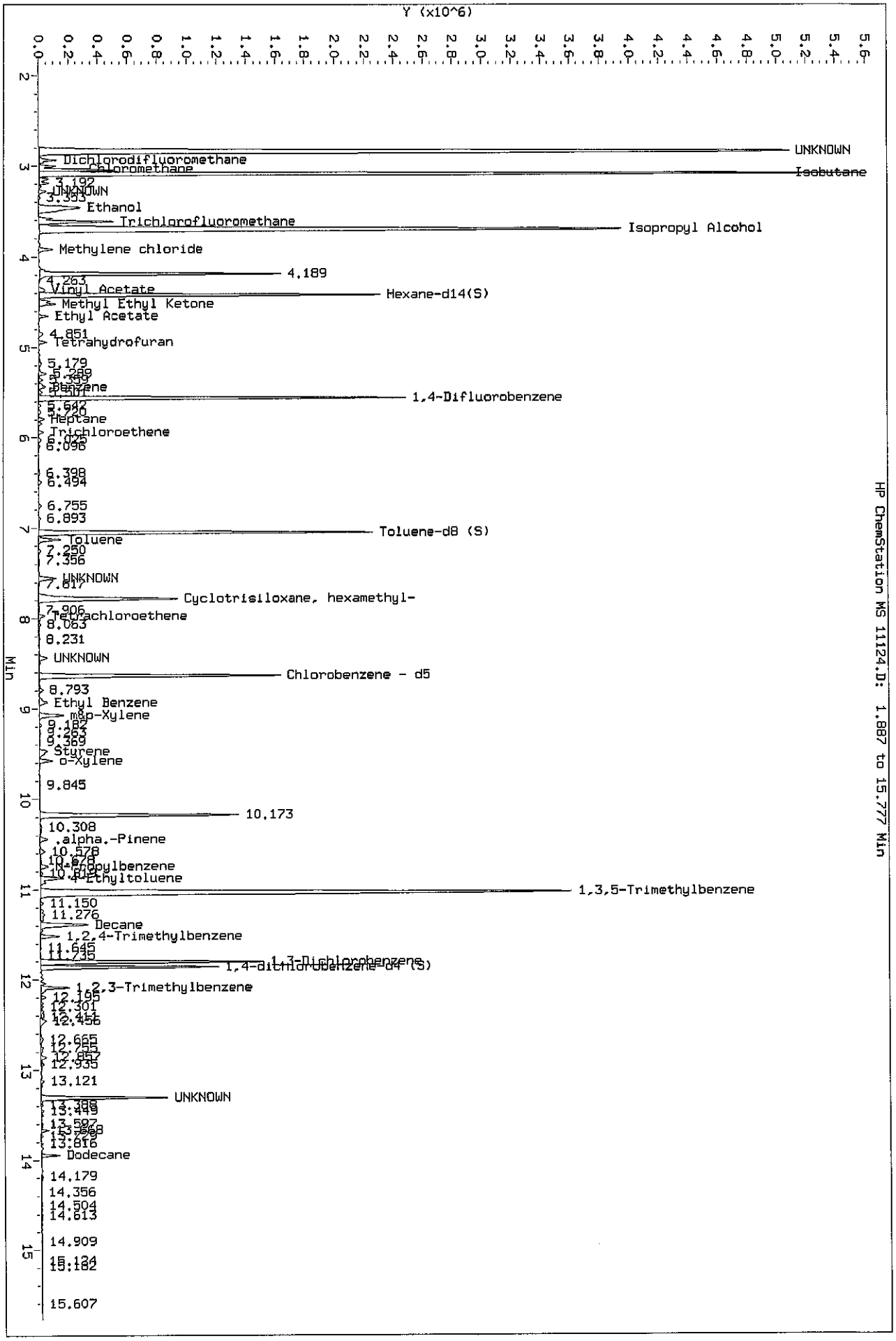
	COMPOUND	RT	AREA	AMOUNT
3	Dichlorodifluoromethane	2.964	189918	0.294
5	Chloromethane	3.057	865379	0.440
10	Ethanol	3.462	878472	45.176
61	Tetrachloroethene	7.973	87016	0.254
* 62	Chlorobenzene - d5	8.636	2799842	10.000
71	N-Propylbenzene	10.745	121373	0.126
75	1,2,4-Trimethylbenzene	11.520	218012	0.779
82	1,2,3-Trimethylbenzene	12.041	358761	0.155

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.845	12168977	18.8350167	26.2	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11124.D
Report Date: 21-Apr-2016 14:03

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Isobutane					CAS #: 75-28-5		
3.093	9653678	4.91108947	6.83	86	NBS75K.l	62334	5
Unknown					CAS #:		
3.282	106753	5.48982977	7.63	0		0	10
Unknown					CAS #:		
7.552	230076	0.67261452	0.935	0		0	61
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
7.781	2065175	6.03743083	8.39	72	NBS75K.l	27918	61
Unknown					CAS #:		
8.440	132788	0.47427097	0.659	0		0	62
.alpha.-Pinene					CAS #: 80-56-8		
10.440	113909	0.11824737	0.164	91	NBS75K.l	65808	71
Decane					CAS #: 124-18-5		
11.388	686442	2.45326583	3.41	93	NBS75K.l	66205	75
Unknown					CAS #:		
13.308	1426129	0.61813395	0.859	0		0	82
Dodecane					CAS #: 112-40-3		
13.944	150129	0.06507105	0.0904	97	NBS75K.l	68251	82

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11124.D
Injection Date: 20-APR-2016 21:21
Instrument: 10airB.i
Client Sample ID:



HP ChemStation MS 11124.D: 1.887 to 15.777 Min

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11125.D
Report Date: 21-Apr-2016 14:04

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419004
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 21:53

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.835	11.4	J
2. 71-36-3	1-Butanol	5.279	0.660	NJ
3. 591-76-4	Hexane, 2-methyl-	5.356	0.121	NJ
4.	Unknown	7.549	1.57	J
5. 541-05-9	Cyclotrisiloxane, hexamethy	7.774	1.47	NJ
6. 80-56-8	.alpha.-Pinene	10.440	0.295	NJ
7. 62016-14-2	Octane, 2,5,6-trimethyl-	11.401	2.28	NJ
8. 5989-27-5	D-Limonene	12.089	0.882	NJ
9.	Unknown	12.407	0.346	J
10.	Unknown	13.308	1.44	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11125.D
Report Date: 21-Apr-2016 14:04

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11125.D
Lab Smp Id: 10344419004
Inj Date : 20-APR-2016 21:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 25
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

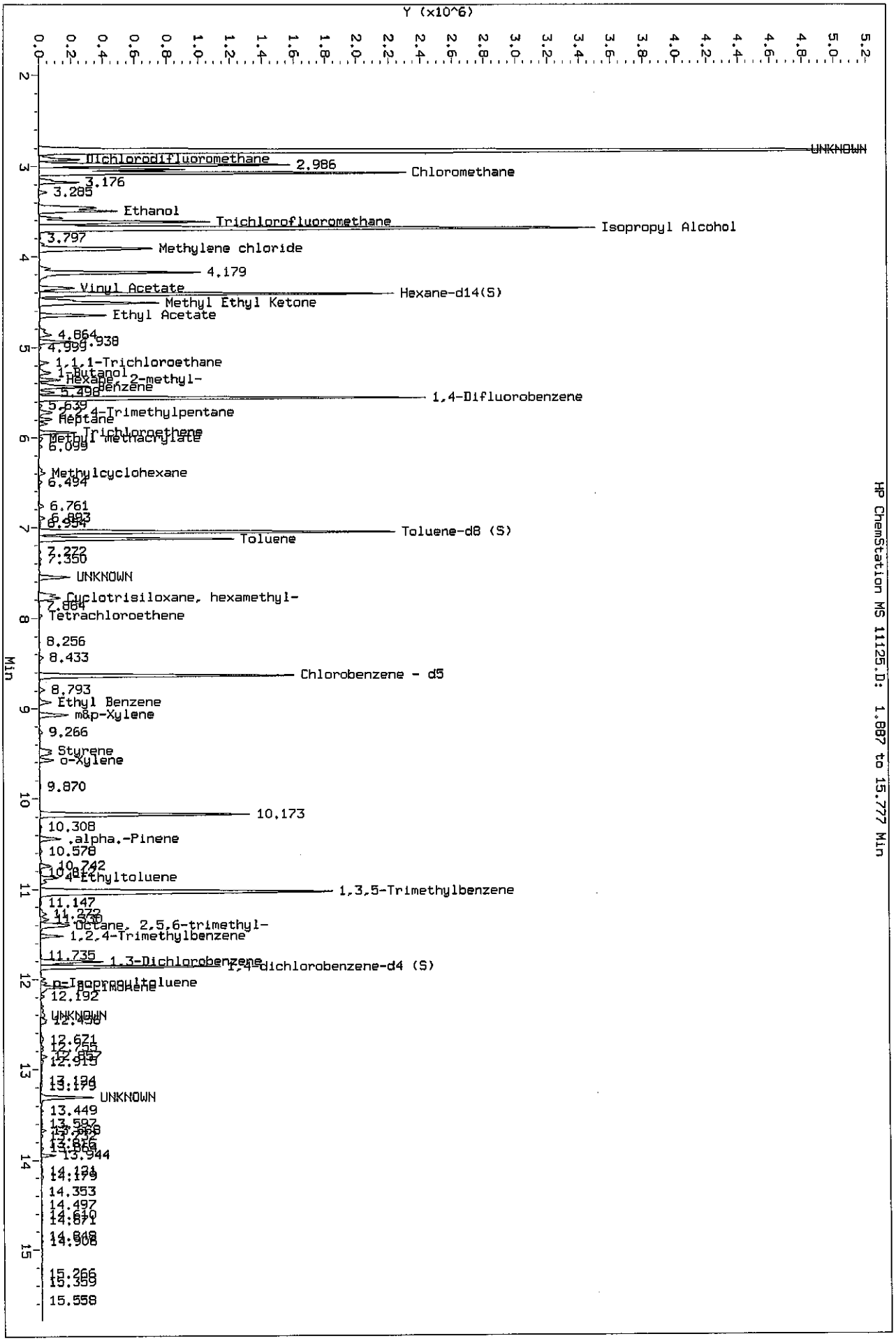
Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.951	463374	0.309
37 1,1,1-Trichloroethane	5.170	107669	0.354
39 Benzene	5.404	608322	0.272
56 Toluene	7.128	2033652	6.656
61 Tetrachloroethene	7.967	52619	0.136
72 4-Ethyltoluene	10.915	269091	0.240
75 1,2,4-Trimethylbenzene	11.517	226779	0.828
81 p-Isopropyltoluene	11.993	56521	0.109

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.835	12707795	8.47603231	11.4	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11125.D
Report Date: 21-Apr-2016 14:04

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
1-Butanol					CAS #: 71-36-3		
5.279	149914	0.49235387	0.660	83	NBS75K.l	62581	37
Hexane, 2-methyl-					CAS #: 591-76-4		
5.356	201453	0.08992724	0.121	94	NBS75K.l	1598	39
Unknown					CAS #:		
7.549	359081	1.17530547	1.57	0		0	56
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
7.774	422702	1.09329059	1.47	72	NBS75K.l	27918	61
.alpha.-Pinene					CAS #: 80-56-8		
10.440	247625	0.22048250	0.295	94	NBS75K.l	65808	72
Octane, 2,5,6-trimethyl-					CAS #: 62016-14-2		
11.401	465684	1.70060085	2.28	78	NBS75K.l	11607	75
D-Limonene					CAS #: 5989-27-5		
12.089	341326	0.65851027	0.882	95	NBS75K.l	65790	81
Unknown					CAS #:		
12.407	133858	0.25824893	0.346	0		0	81
Unknown					CAS #:		
13.308	555346	1.07141239	1.44	0		0	81


Data File: \\192.168.10.12\chem\10airB.i\042016.b\11125.D
Injection Date: 20-APR-2016 21:53
Instrument: 10airB.i
Client Sample ID:
HP ChemStation MS 11125.D: 1.887 to 15.777 Min
Y (x10^6)
Min
UNKNOWN
Dichlorodifluoromethane
2.986
Chloromethane
3.176
3.285
Ethanol
Trichlorofluoromethane
Isopropyl Alcohol
3.797
Methylene chloride
4.179
Vinyl Acetate
Hexane-d14(S)
Methyl Ethyl Ketone
Ethyl Acetate
4.864
4.999
4.938
1,1,1-Trichloroethane
1-Butanol
Hexane
2-methyl-
benzene
5.496
1,4-Difluorobenzene
5.639
2,4-Trimethylpentane
Heptane
Trichloroethene
Methyl methacrylate
6.099
Methylcyclohexane
6.494
6.761
6.893
6.954
Toluene-d8 (S)
Toluene
7.272
7.350
UNKNOWN
Cyclotrisiloxane, hexamethyl-
7.864
Tetrachloroethene
8.256
8.433
Chlorobenzene - d5
8.793
Ethyl Benzene
m&p-Xylene
9.266
Styrene
o-Xylene
9.870
10.173
10.308
.alpha.-Pinene
10.578
10.742
4-Ethyltoluene
1,3,5-Trimethylbenzene
11.147
11.272
11.330
Octane, 2,5,6-trimethyl-
1,2,4-Trimethylbenzene
11.735
1,3-Dichlorobenzene
1,4-dichlorobenzene-d4 (S)
p-Isopropyltoluene
Naphthalene
12.192
UNKNOWN
12.456
12.671
12.755
12.857
12.919
13.124
13.179
UNKNOWN
13.449
13.597
13.668
13.816
13.868
13.944
14.121
14.179
14.353
14.497
14.640
14.671
14.848
14.908
15.266
15.359
15.558

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11126.D
Report Date: 21-Apr-2016 10:57

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419005
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 22:24

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.852	35.5	J
2.	Unknown	4.858	0.618	J
3. 107-39-1	1-Pentene, 2,4,4-trimethyl-	6.099	1.34	NJ
4. 66-25-1	Hexanal	7.549	0.986	NJ
5. 541-05-9	Cyclotrisiloxane, hexamethy	7.777	2.72	NJ
6. 13466-78-9	3-Carene	10.436	0.518	NJ
7.	Unknown	11.388	2.75	J
8. 1074-43-7	Benzene, 1-methyl-3-propyl-	12.385	0.330	NJ
9. 1120-21-4	Undecane	12.861	0.464	NJ
10.	Unknown	13.308	1.62	J
11. 112-40-3	Dodecane	13.948	1.51	NJ

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11126.D
Report Date: 21-Apr-2016 10:57

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11126.D
Lab Smp Id: 10344419005
Inj Date : 20-APR-2016 22:24
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 26
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.390	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

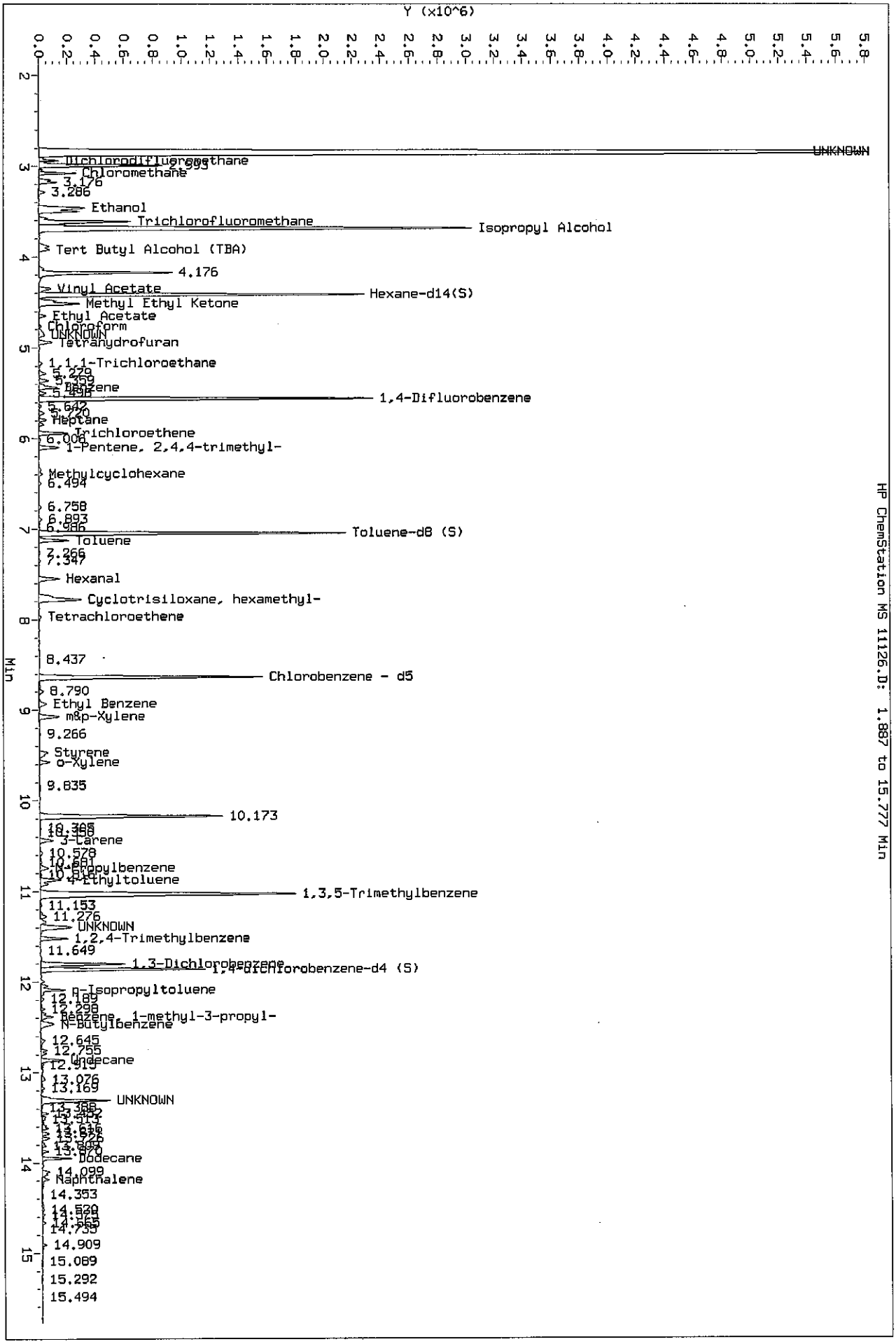
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.964	185519	0.257
36 Tetrahydrofuran	4.932	155853	0.475
47 Trichloroethene	5.938	325938	1.255
61 Tetrachloroethene	7.970	42884	0.109
71 N-Propylbenzene	10.745	131883	0.266
75 1,2,4-Trimethylbenzene	11.517	306132	1.156
84 N-Butylbenzene	12.472	270403	0.344
86 Naphthalene	14.185	114849	0.479

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.852	18423091	25.5410800	35.5	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11126.D
Report Date: 21-Apr-2016 10:57

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.858	145908	0.44424650	0.618	0		0	36
1-Pentene, 2,4,4-trimethyl-				CAS #:	107-39-1		
6.099	249788	0.96164896	1.34	91	NBS75K.1	2693	47
Hexanal				CAS #:	66-25-1		
7.549	280150	0.70901828	0.986	80	NBS75K.1	63409	61
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
7.777	772721	1.95564025	2.72	91	NBS75K.1	70586	61
3-Carene				CAS #:	13466-78-9		
10.436	184650	0.37288686	0.518	90	NBS75K.1	65798	71
Unknown				CAS #:			
11.388	523789	1.97725821	2.75	0		0	75
Benzene, 1-methyl-3-propyl-				CAS #:	1074-43-7		
12.385	186808	0.23738418	0.330	95	NBS75K.1	65527	84
Undecane				CAS #:	1120-21-4		
12.861	262892	0.33406704	0.464	90	NBS75K.1	67318	84
Unknown				CAS #:			
13.308	915449	1.16329822	1.62	0		0	84
Dodecane				CAS #:	112-40-3		
13.948	259897	1.08421565	1.51	95	NBS75K.1	68249	86

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11126.D
Injection Date: 20-APR-2016 22:24
Instrument: 10airB.i
Client Sample ID:



HP ChemStation MS 11126.D: 1.887 to 15.777 Min

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11112.D
Report Date: 21-Apr-2016 14:00

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419006
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 15:14

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.839	5.38	J
2. 75-28-5	Isobutane	3.073	0.457	NJ
3. 107-83-5	Pentane, 2-methyl-	4.202	0.720	NJ
4.	Unknown	4.871	2.53	J
5. 591-76-4	Hexane, 2-methyl-	5.366	0.231	NJ
6. 589-34-4	Hexane, 3-methyl-	5.504	1.30	NJ
7. 66-25-1	Hexanal	7.549	1.77	NJ
8. 541-05-9	Cyclotrisiloxane, hexamethy	7.781	1.05	NJ
9. 127-91-3	.beta.-Pinene	11.337	1.65	NJ
10.	Unknown	13.308	0.904	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11112.D
Report Date: 21-Apr-2016 14:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11112.D
Lab Smp Id: 10344419006
Inj Date : 20-APR-2016 15:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 12
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

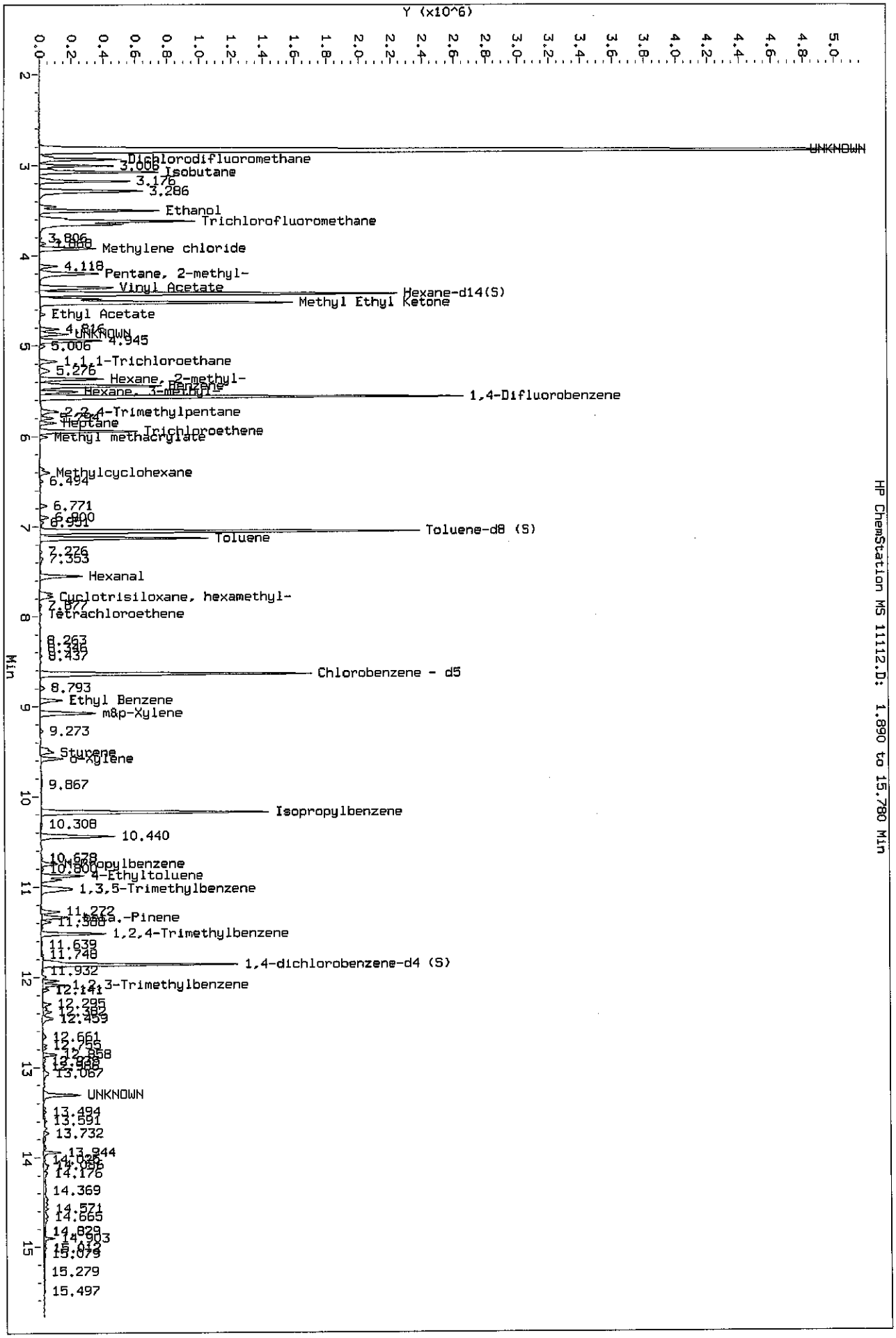
	COMPOUND	RT	AREA	AMOUNT
3	Dichlorodifluoromethane	2.958	817020	0.226
26	Vinyl Acetate	4.360	851442	0.507
32	Ethyl Acetate	4.649	60061	0.325
39	Benzene	5.414	1382307	0.344
* 43	1,4-Difluorobenzene	5.562	4326908	10.000
61	Tetrachloroethene	7.970	26994	0.063
75	1,2,4-Trimethylbenzene	11.517	665605	2.319
82	1,2,3-Trimethylbenzene	12.041	365628	0.502

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.839	13040841	3.61140001	5.38	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11112.D
Report Date: 21-Apr-2016 14:00

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Isobutane					CAS #: 75-28-5		
3.073	1107604	0.30672873	0.457	80	NBS75K.l	62334	3
Pentane, 2-methyl-					CAS #: 107-83-5		
4.202	811533	0.48300599	0.720	91	NBS75K.l	62863	26
Unknown					CAS #:		
4.871	313743	1.69617989	2.53	0		0	32
Hexane, 2-methyl-					CAS #: 591-76-4		
5.366	624186	0.15522602	0.231	93	NBS75K.l	1598	39
Hexane, 3-methyl-					CAS #: 589-34-4		
5.504	377975	0.87354551	1.30	91	NBS75K.l	1593	43
Hexanal					CAS #: 66-25-1		
7.549	505817	1.18806873	1.77	90	NBS75K.l	63408	61
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
7.781	300260	0.70525380	1.05	80	NBS75K.l	27918	61
.beta.-Pinene					CAS #: 127-91-3		
11.337	317299	1.10571664	1.65	95	NBS75K.l	65805	75
Unknown					CAS #:		
13.308	442437	0.60685880	0.904	0		0	82

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11112.D
Injection Date: 20-APR-2016 15:14
Instrument: 10airB.i
Client Sample ID:



HP ChemStation MS 11112.D: 1.890 to 15.780 Min

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10522.D
Report Date: 19-Apr-2016 16:04

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419007
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 14-APR-2016 20:23

Client SDG: 041416.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.302	67.7	J
2.	589-34-4	Hexane, 3-methyl-	4.488	0.873	NJ
3.		Unknown	5.417	0.488	J
4.		Unknown	5.620	0.280	J
5.	592-13-2	Hexane, 2,5-dimethyl-	5.803	0.743	NJ
6.		Unknown	6.379	1.91	J
7.		Unknown	6.604	1.13	J
8.	526-73-8	Benzene, 1,2,3-trimethyl-	9.925	2.26	NJ
9.		Unknown	10.067	0.320	J
10.		Unknown	12.362	15.1	J

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10522.D
Report Date: 19-Apr-2016 16:04

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\041416.b\10522.D
Lab Smp Id: 10344419007
Inj Date : 14-APR-2016 20:23
Operator : NCK Inst ID: 10air7.i
Smp Info :
Misc Info : 25702
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\041416.b\TO15_104-16.m
Meth Date : 15-Apr-2016 13:09 nkoller Quant Type: ISTD
Cal Date : 13-APR-2016 14:41 Cal File: 10412.D
Als bottle: 22
Dil Factor: 2.24000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.240	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

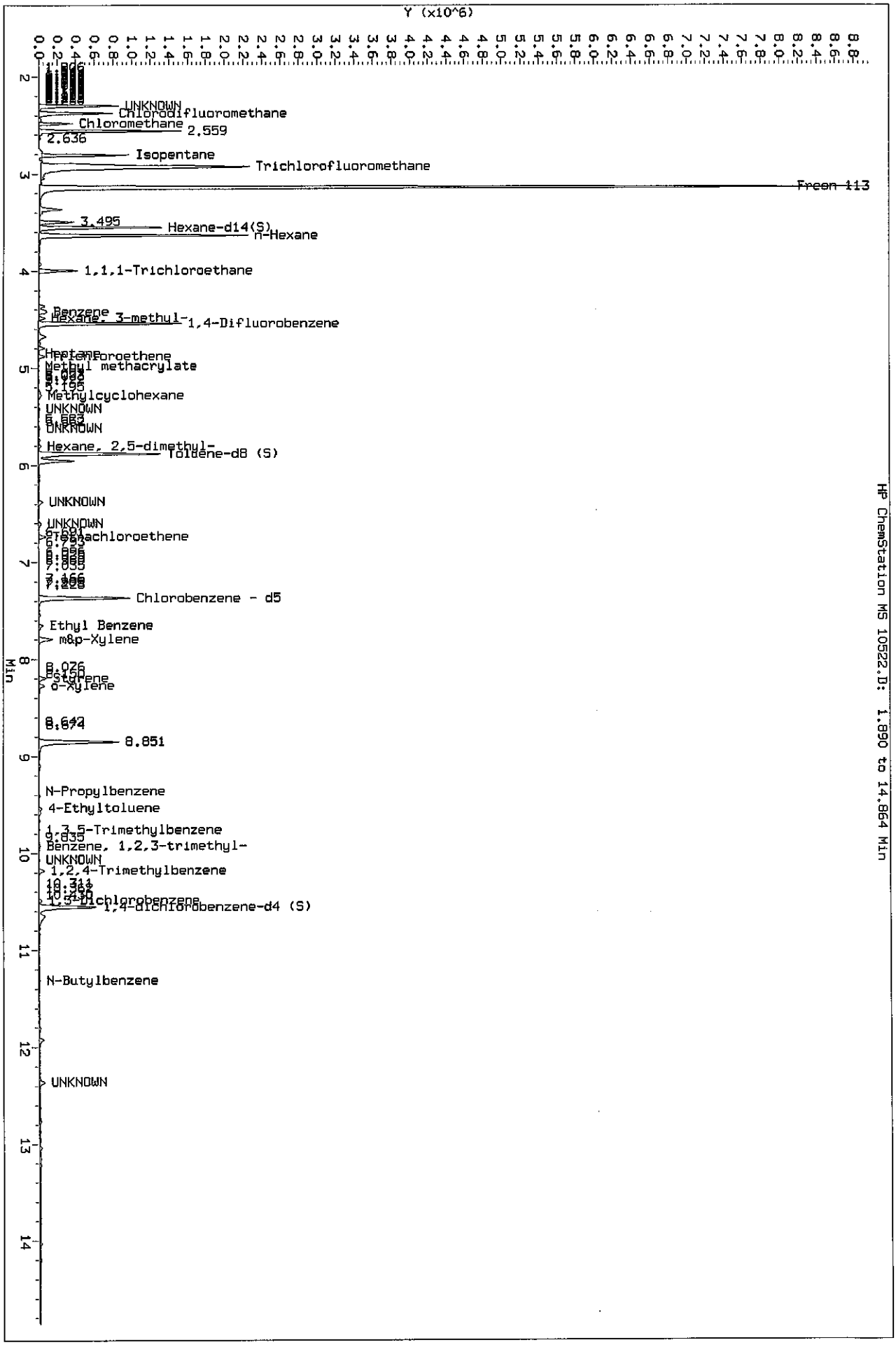
	COMPOUND	RT	AREA	AMOUNT
	1 Chlorodifluoromethane	2.376	1126328	29.818
*	43 1,4-Difluorobenzene	4.543	2504713	10.000
	51 Methylcyclohexane	5.279	111917	0.560
$	55 Toluene-d8 (S)	5.884	2808077	10.293
	61 Tetrachloroethene	6.739	132298	0.881
	73 1,3,5-Trimethylbenzene	9.665	16808	0.287
	75 1,2,4-Trimethylbenzene	10.179	133571	0.923
	84 N-Butylbenzene	11.327	97953	0.348

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.302	1142356	30.2421499	67.7	0		0	1

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10522.D
Report Date: 19-Apr-2016 16:04

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Hexane, 3-methyl-				CAS #: 589-34-4			
4.488	97599	0.38966275	0.873	91	NBS75K.l	1593	43
Unknown				CAS #:			
5.417	43576	0.21785510	0.488	0		0	51
Unknown				CAS #:			
5.620	34133	0.12511656	0.280	0		0	55
Hexane, 2,5-dimethyl-				CAS #: 592-13-2			
5.803	90455	0.33156844	0.743	72	NBS75K.l	64204	55
Unknown				CAS #:			
6.379	127694	0.85057226	1.91	0		0	61
Unknown				CAS #:			
6.604	75812	0.50498484	1.13	0		0	61
Benzene, 1,2,3-trimethyl-				CAS #: 526-73-8			
9.925	58962	1.00741123	2.26	72	NBS75K.l	3773	73
Unknown				CAS #:			
10.067	20702	0.14302833	0.320	0		0	75
Unknown				CAS #:			
12.362	1894707	6.73942721	15.1	0		0	84

Data File: \\192.168.10.12\chem\10air7.i\041416.b\10522.D
Injection Date: 14-APR-2016 20:23
Instrument: 10air7.i
Client Sample ID:



HP ChemStation MS 10522.D: 1.890 to 14.864 Min

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11114.D
Report Date: 21-Apr-2016 14:01

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419008
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 16:17

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.832	17.9	J
2.		Unknown	3.279	120	J
3.	107-83-5	Pentane, 2-methyl-	4.192	0.281	NJ
4.		Unknown	4.851	0.462	J
5.	71-36-3	1-Butanol	5.276	0.0706	NJ
6.		Unknown	7.549	1.11	J
7.	541-05-9	Cyclotrisiloxane, hexamethy	7.777	7.01	NJ
8.	80-56-8	.alpha.-Pinene	10.439	0.160	NJ
9.	5989-54-8	Cyclohexene, 1-methyl-4-(1-	12.082	1.07	NJ
10.		Unknown	13.307	3.18	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11114.D
Report Date: 21-Apr-2016 14:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11114.D
Lab Smp Id: 10344419008
Inj Date : 20-APR-2016 16:17
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 14
Dil Factor: 1.55000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.550	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

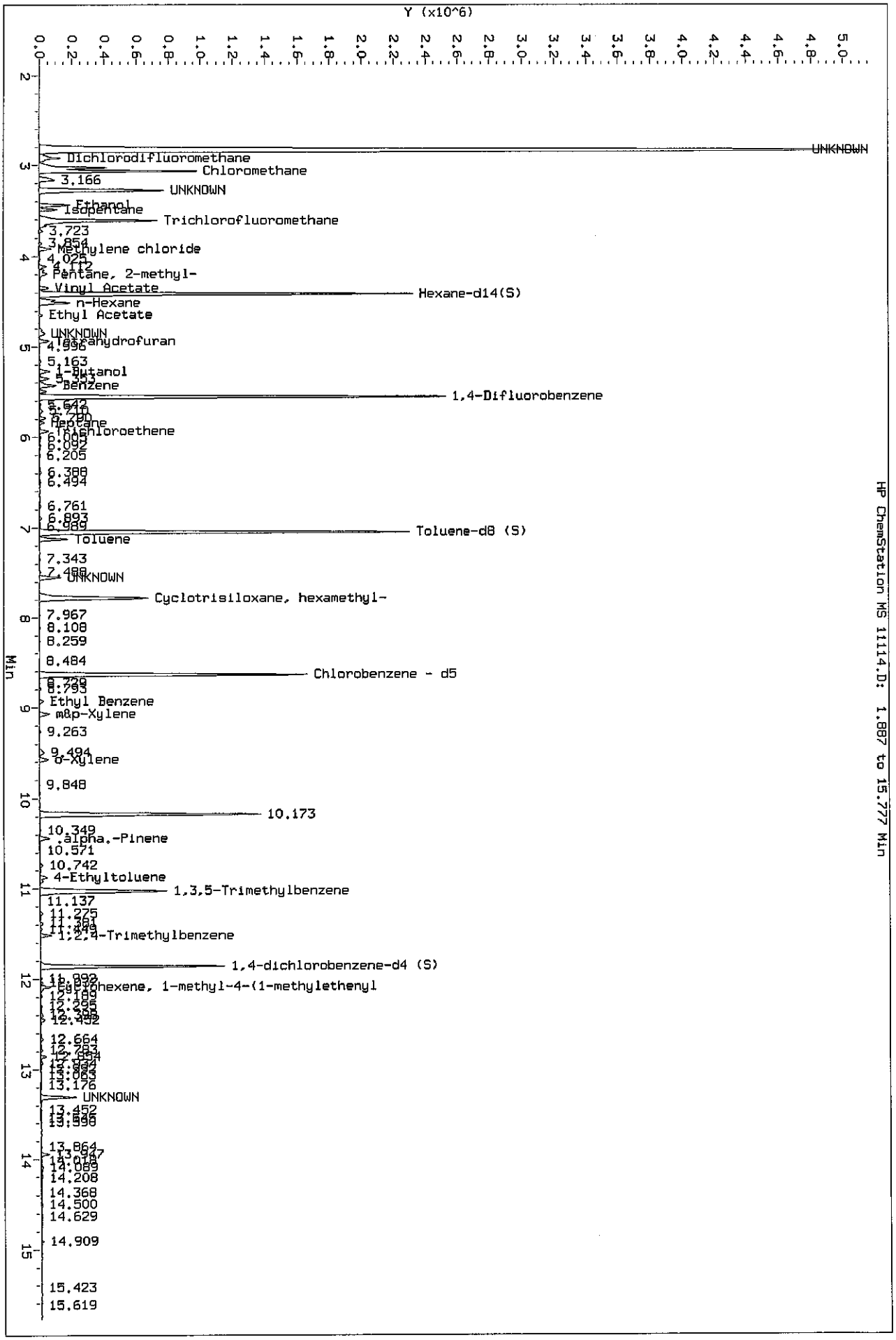
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.948	272813	0.253
10 Ethanol	3.440	269627	15.504
26 Vinyl Acetate	4.359	94453	0.123
36 Tetrahydrofuran	4.935	95790	0.264
39 Benzene	5.401	265118	0.106
56 Toluene	7.124	287391	0.898
72 4-Ethyltoluene	10.922	114036	0.103
$ 78 1,4-dichlorobenzene-d4	11.857	1816481	10.445

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.832	12454746	11.5655567	17.9	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11114.D
Report Date: 21-Apr-2016 14:01

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.279	1348780	77.5568837	120	0		0	10
Pentane, 2-methyl-				CAS #:	107-83-5		
4.192	138813	0.18138838	0.281	91	NBS75K.l	62863	26
Unknown				CAS #:			
4.851	108225	0.29778412	0.462	0		0	36
1-Butanol				CAS #:	71-36-3		
5.276	114120	0.04554524	0.0706	83	NBS75K.l	62583	39
Unknown				CAS #:			
7.549	229345	0.71623581	1.11	0		0	56
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
7.777	1447378	4.52011328	7.01	90	NBS75K.l	70586	56
.alpha.-Pinene				CAS #:	80-56-8		
10.439	113723	0.10312171	0.160	95	NBS75K.l	65809	72
Cyclohexene, 1-methyl-4-(1-methylethenyl				CAS #:	5989-54-8		
12.082	119942	0.68968144	1.07	91	NBS75K.l	65806	78
Unknown				CAS #:			
13.307	357091	2.05332432	3.18	0		0	78

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11114.D
Injection Date: 20-APR-2016 16:17
Instrument: 10airB.i
Client Sample ID:



Data File: \\192.168.10.12\chem\10airB.i\042016.b\11116.D
Report Date: 21-Apr-2016 14:01

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419009
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 17:20

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.855	12.3	J
2.	75-28-5	Isobutane	3.093	6.15	NJ
3.		Unknown	3.292	106	J
4.	107-83-5	Pentane, 2-methyl-	4.202	0.846	NJ
5.	591-76-4	Hexane, 2-methyl-	5.366	0.341	NJ
6.	66-25-1	Hexanal	7.549	2.62	NJ
7.	55429-29-3	Arsenous acid, tris(trimeth	7.780	6.12	NJ
8.	80-56-8	.alpha.-Pinene	10.440	2.56	NJ
9.	127-91-3	.beta.-Pinene	11.337	1.70	NJ
10.		Unknown	13.308	0.668	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11116.D
Report Date: 21-Apr-2016 14:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11116.D
Lab Smp Id: 10344419009
Inj Date : 20-APR-2016 17:20
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 16
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

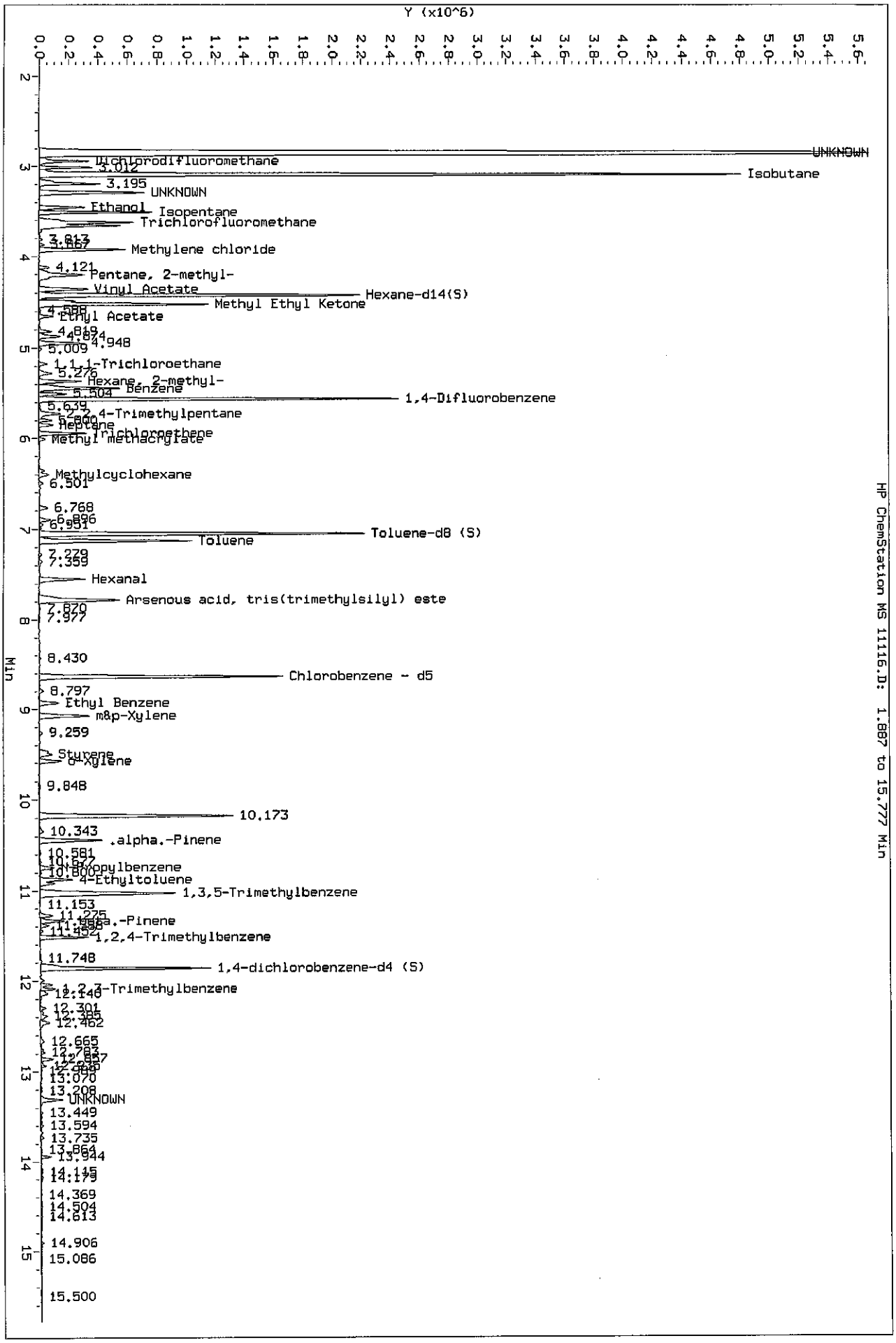
COMPOUND	RT	AREA	AMOUNT
3 Dichlorodifluoromethane	2.967	533475	0.259
10 Ethanol	3.456	471876	27.487
26 Vinyl Acetate	4.363	588479	0.432
39 Benzene	5.414	1054313	0.512
56 Toluene	7.131	1719767	5.566
71 N-Propylbenzene	10.745	178914	0.372
75 1,2,4-Trimethylbenzene	11.517	523020	1.939
82 1,2,3-Trimethylbenzene	12.041	252396	0.388

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.855	16933443	8.23366891	12.3	0		0	3

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11116.D
Report Date: 21-Apr-2016 14:01

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Isobutane				CAS #: 75-28-5			
3.093	8482240	4.12438020	6.15	86	NBS75K.l	62334	3
Unknown				CAS #:			
3.292	1226286	71.4320221	106	0		0	10
Pentane, 2-methyl-				CAS #: 107-83-5			
4.202	772730	0.56745993	0.846	91	NBS75K.l	62863	26
Hexane, 2-methyl-				CAS #: 591-76-4			
5.366	470803	0.22870172	0.341	94	NBS75K.l	1598	39
Hexanal				CAS #: 66-25-1			
7.549	542903	1.75696590	2.62	91	NBS75K.l	63408	56
Arsenous acid, tris(trimethylsilyl) este				CAS #: 55429-29-3			
7.780	1268263	4.10440799	6.12	72	NBS75K.l	48300	56
.alpha.-Pinene				CAS #: 80-56-8			
10.440	827126	1.71885830	2.56	96	NBS75K.l	65808	71
.beta.-Pinene				CAS #: 127-91-3			
11.337	308258	1.14287661	1.70	93	NBS75K.l	65805	75
Unknown				CAS #:			
13.308	291902	0.44844471	0.668	0		0	82

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11116.D
Injection Date: 20-APR-2016 17:20
Instrument: 10airB.i
Client Sample ID:



HP ChemStation MS 11116.D: 1.887 to 15.777 Min

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11117.D
Report Date: 21-Apr-2016 14:02

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10344419010
Operator : NCK
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-APR-2016 17:52

Client SDG: 042016.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.845	48.6	J
2.	Unknown	4.192	0.0342	J
3.	Unknown	4.845	0.127	J
4.	Unknown	7.781	0.450	J
5.	Unknown	11.031	0.453	J
6.	Unknown	12.456	0.0910	J
7.	Unknown	13.559	0.108	J
8.	Unknown	14.623	0.169	J
9.	Unknown	15.028	0.0887	J

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11117.D
Report Date: 21-Apr-2016 14:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\042016.b\11117.D
Lab Smp Id: 10344419010
Inj Date : 20-APR-2016 17:52
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 25736
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\042016.b\TO15_110-16.m
Meth Date : 21-Apr-2016 09:22 nkoller Quant Type: ISTD
Cal Date : 19-APR-2016 12:32 Cal File: 11008.D
Als bottle: 17
Dil Factor: 1.44000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

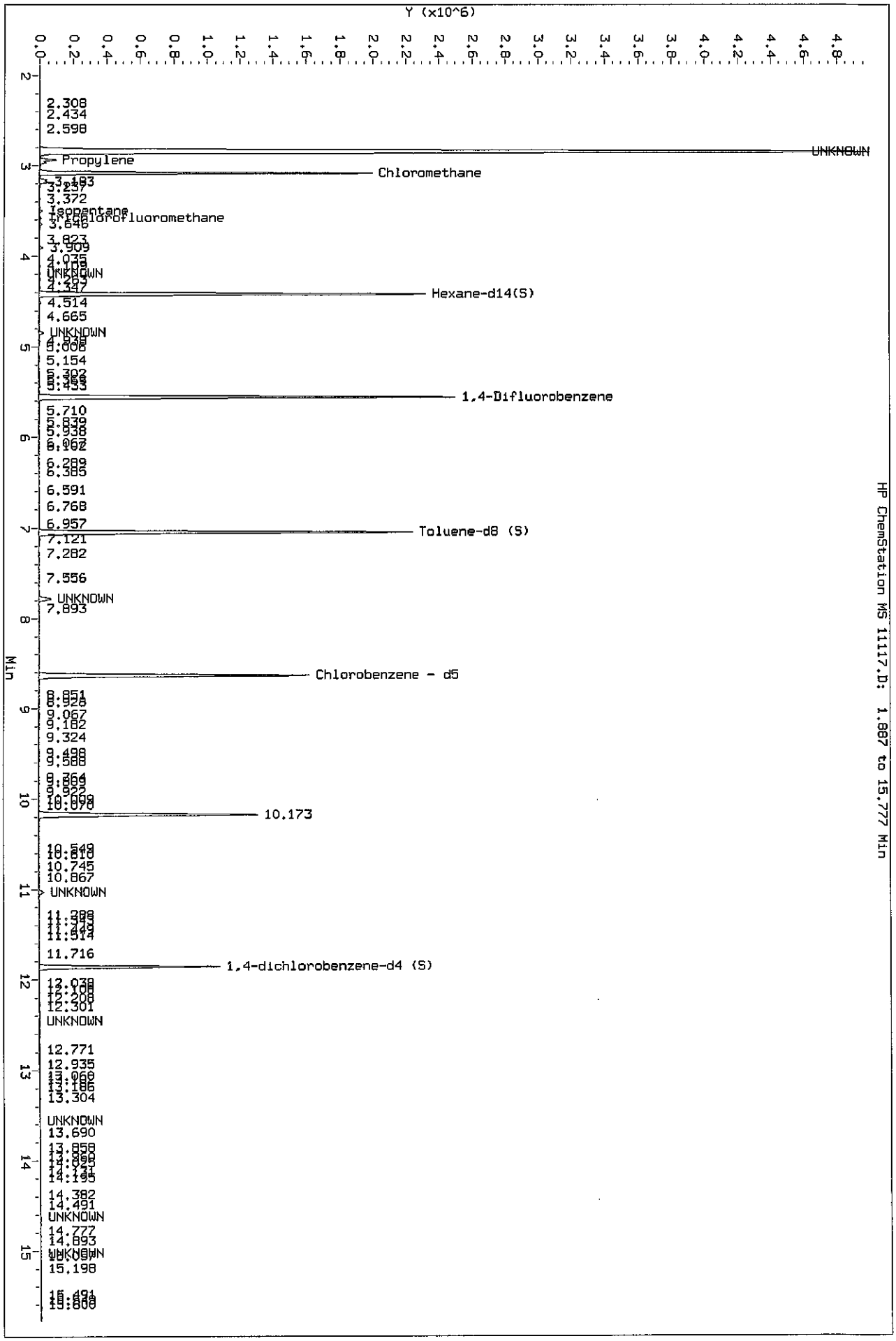
COMPOUND	RT	AREA	AMOUNT
2 Propylene	2.935	165117	0.496
$ 28 Hexane-d14(S)	4.417	3688908	8.215
$ 55 Toluene-d8 (S)	7.048	3754509	8.473
$ 78 1,4-dichlorobenzene-d4	11.858	1659197	10.013

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.845	11239101	33.7674156	48.6	0		0	2
Unknown				CAS #:			
4.192	10679	0.02378234	0.0342	0		0	28
Unknown				CAS #:			
4.845	39463	0.08788571	0.127	0		0	28
Unknown				CAS #:			
7.781	138372	0.31228036	0.450	0		0	55

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11117.D
Report Date: 21-Apr-2016 14:02

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
11.031	52181	0.31490572	0.453	0		0	78
Unknown				CAS #:			
12.456	10473	0.06320415	0.0910	0		0	78
Unknown				CAS #:			
13.559	12409	0.07488717	0.108	0		0	78
Unknown				CAS #:			
14.623	19425	0.11722966	0.169	0		0	78
Unknown				CAS #:			
15.028	10210	0.06161473	0.0887	0		0	78

Data File: \\192.168.10.12\chem\10airB.i\042016.b\11117.D
Injection Date: 20-APR-2016 17:52
Instrument: 10airB.i
Client Sample ID:



HP ChemStation MS 11117.D: 1.887 to 15.777 Min

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 05, 2016

Tony Coryell
AECOM
800 LaSalle Avenue, Suite 500
Minneapolis, MN 55402

RE: Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Dear Tony Coryell:
Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

A trip blank was submitted with these samples, but it is not applicable for TCLP-VOCs.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy
carol.davy@pacelabs.com
Project Manager

Enclosures

cc: Ben Klaus, AECOM

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10342893001	**Waste - Soil**	Solid	03/29/16 09:25	03/29/16 10:10
10342893002	**Waste - Water**	Water	03/29/16 09:30	03/29/16 10:10

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10342893001	**Waste - Soil**	EPA 6010C	DM	7
		EPA 7470A	LMW	1
		EPA 8260B	PRD	14
10342893002	**Waste - Water**	EPA 6010	IP	7
		EPA 7470A	LMW	1
		EPA 8260B	PRD	14

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SUMMARY OF DETECTION

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10342893002	**Waste - Water**					
EPA 8260B	Tetrachloroethene	51.9	ug/L	25.0	04/02/16 12:35	
EPA 8260B	Trichloroethene	29.0	ug/L	10.0	04/02/16 12:35	

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: AECOM- MN ND
Date: April 05, 2016

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Method: **EPA 6010C**
Description: 6010C MET ICP, TCLP
Client: AECOM- MN ND
Date: April 05, 2016

General Information:
1 sample was analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Method: **EPA 7470A**
Description: 7470A Mercury, TCLP
Client: AECOM- MN ND
Date: April 05, 2016

General Information:
2 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Method: **EPA 8260B**
Description: 8260B MSV TCLP
Client: AECOM- MN ND
Date: April 05, 2016

General Information:
2 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Sample: Waste - Soil **Lab ID: 10342893001** Collected: 03/29/16 09:25 Received: 03/29/16 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP	Analytical Method: EPA 6010C Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 03/31/16 09:08 Initial pH: 10.19; Final pH: 2.55								
Arsenic	ND	mg/L	0.10		1	03/31/16 10:49	04/04/16 11:22	7440-38-2	
Barium	ND	mg/L	0.50		1	03/31/16 10:49	04/04/16 11:22	7440-39-3	
Cadmium	ND	mg/L	0.015		1	03/31/16 10:49	04/04/16 11:22	7440-43-9	
Chromium	ND	mg/L	0.050		1	03/31/16 10:49	04/04/16 11:22	7440-47-3	
Lead	ND	mg/L	0.050		1	03/31/16 10:49	04/04/16 11:22	7439-92-1	
Selenium	ND	mg/L	0.10		1	03/31/16 10:49	04/04/16 11:22	7782-49-2	
Silver	ND	mg/L	0.050		1	03/31/16 10:49	04/04/16 11:22	7440-22-4	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Leachate Method/Date: EPA 1311; 03/31/16 09:08 Initial pH: 10.19; Final pH: 2.55								
Mercury	ND	ug/L	0.60	0.065	1	03/31/16 12:35	03/31/16 17:06	7439-97-6	
8260B MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 03/31/16 08:17								
Benzene	ND	ug/L	25.0	5.4	1		04/02/16 12:21	71-43-2	
2-Butanone (MEK)	ND	ug/L	125	62.2	1		04/02/16 12:21	78-93-3	
Carbon tetrachloride	ND	ug/L	25.0	8.8	1		04/02/16 12:21	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5.8	1		04/02/16 12:21	108-90-7	
Chloroform	ND	ug/L	25.0	6.8	1		04/02/16 12:21	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	25.0	4.0	1		04/02/16 12:21	106-46-7	
1,2-Dichloroethane	ND	ug/L	25.0	4.2	1		04/02/16 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5.5	1		04/02/16 12:21	75-35-4	
Tetrachloroethene	ND	ug/L	25.0	4.8	1		04/02/16 12:21	127-18-4	
Trichloroethene	ND	ug/L	10.0	3.5	1		04/02/16 12:21	79-01-6	
Vinyl chloride	ND	ug/L	25.0	3.6	1		04/02/16 12:21	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-125		1		04/02/16 12:21	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1		04/02/16 12:21	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		04/02/16 12:21	460-00-4	

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ANALYTICAL RESULTS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Sample: Waste - Water **Lab ID: 10342893002** Collected: 03/29/16 09:30 Received: 03/29/16 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 03/31/16 09:08 Initial pH: 9.04; Final pH: 1.56								
Arsenic	ND	mg/L	0.10		1	03/31/16 10:51	04/05/16 12:22	7440-38-2	
Barium	ND	mg/L	0.50		1	03/31/16 10:51	04/05/16 12:22	7440-39-3	
Cadmium	ND	mg/L	0.015		1	03/31/16 10:51	04/05/16 12:22	7440-43-9	
Chromium	ND	mg/L	0.050		1	03/31/16 10:51	04/05/16 12:22	7440-47-3	
Lead	ND	mg/L	0.050		1	03/31/16 10:51	04/05/16 12:22	7439-92-1	
Selenium	ND	mg/L	0.10		1	03/31/16 10:51	04/05/16 12:22	7782-49-2	
Silver	ND	mg/L	0.050		1	03/31/16 10:51	04/05/16 12:22	7440-22-4	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Leachate Method/Date: EPA 1311; 03/31/16 09:08 Initial pH: 9.04; Final pH: 1.56								
Mercury	ND	ug/L	0.60	0.065	1	03/31/16 12:35	03/31/16 17:08	7439-97-6	
8260B MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 03/31/16 08:17								
Benzene	ND	ug/L	25.0	5.4	1		04/02/16 12:35	71-43-2	
2-Butanone (MEK)	ND	ug/L	125	62.2	1		04/02/16 12:35	78-93-3	
Carbon tetrachloride	ND	ug/L	25.0	8.8	1		04/02/16 12:35	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5.8	1		04/02/16 12:35	108-90-7	
Chloroform	ND	ug/L	25.0	6.8	1		04/02/16 12:35	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	25.0	4.0	1		04/02/16 12:35	106-46-7	
1,2-Dichloroethane	ND	ug/L	25.0	4.2	1		04/02/16 12:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5.5	1		04/02/16 12:35	75-35-4	
Tetrachloroethene	**51.9**	ug/L	25.0	4.8	1		04/02/16 12:35	127-18-4	
Trichloroethene	**29.0**	ug/L	10.0	3.5	1		04/02/16 12:35	79-01-6	
Vinyl chloride	ND	ug/L	25.0	3.6	1		04/02/16 12:35	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-125		1		04/02/16 12:35	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1		04/02/16 12:35	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		04/02/16 12:35	460-00-4	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

QC Batch: MERP/16264 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470A Mercury TCLP
Associated Lab Samples: 10342893001, 10342893002

METHOD BLANK: 2220490 — Matrix: Water
Associated Lab Samples: 10342893001, 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.60	0.065	03/31/16 16:39	

METHOD BLANK: 2219506 — Matrix: Water
Associated Lab Samples: 10342893001, 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.60	0.065	03/31/16 17:15	

METHOD BLANK: 2219507 — Matrix: Water
Associated Lab Samples: 10342893001, 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.60	0.065	03/31/16 17:17	

LABORATORY CONTROL SAMPLE: 2220491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	15	15.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2220492 2220493

Parameter	Units	10342885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	15	15	15.1	15.3	101	102	80-120	2	20	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

QC Batch: MPRP/62322
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 10342893002

METHOD BLANK: 2220471
Matrix: Water
Associated Lab Samples: 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/05/16 11:35	
Barium	mg/L	ND	0.50		04/05/16 11:35	
Cadmium	mg/L	ND	0.015		04/05/16 11:35	
Chromium	mg/L	ND	0.050		04/05/16 11:35	
Lead	mg/L	ND	0.050		04/05/16 11:35	
Selenium	mg/L	ND	0.10		04/05/16 11:35	
Silver	mg/L	ND	0.050		04/05/16 11:35	

METHOD BLANK: 2219506
Matrix: Water
Associated Lab Samples: 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/05/16 12:25	
Barium	mg/L	ND	0.50		04/05/16 12:25	
Cadmium	mg/L	ND	0.015		04/05/16 12:25	
Chromium	mg/L	ND	0.050		04/05/16 12:25	
Lead	mg/L	ND	0.050		04/05/16 12:25	
Selenium	mg/L	ND	0.10		04/05/16 12:25	
Silver	mg/L	ND	0.050		04/05/16 12:25	

METHOD BLANK: 2219507
Matrix: Water
Associated Lab Samples: 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/05/16 12:30	
Barium	mg/L	ND	0.50		04/05/16 12:30	
Cadmium	mg/L	ND	0.015		04/05/16 12:30	
Chromium	mg/L	ND	0.050		04/05/16 12:30	
Lead	mg/L	ND	0.050		04/05/16 12:30	
Selenium	mg/L	ND	0.10		04/05/16 12:30	
Silver	mg/L	ND	0.050		04/05/16 12:30	

LABORATORY CONTROL SAMPLE: 2220472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	5	5.1	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

LABORATORY CONTROL SAMPLE: 2220472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	5	4.7	94	80-120	
Cadmium	mg/L	5	4.7	95	80-120	
Chromium	mg/L	5	4.6	92	80-120	
Lead	mg/L	5	5.0	101	80-120	
Selenium	mg/L	5	5.2	103	80-120	
Silver	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2220473 2220474

Parameter	Units	10342885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	5	5	5.2	5.2	103	103	75-125	0	30	
Barium	mg/L	925 ug/L	5	5	5.7	5.6	95	94	75-125	1	30	
Cadmium	mg/L	47.6 ug/L	5	5	4.8	4.8	96	96	75-125	0	30	
Chromium	mg/L	ND	5	5	4.7	4.7	93	93	75-125	0	30	
Lead	mg/L	ND	5	5	5.0	5.0	100	100	75-125	0	30	
Selenium	mg/L	113 ug/L	5	5	5.3	5.4	105	105	75-125	0	30	
Silver	mg/L	ND	2.5	2.5	2.5	2.5	99	99	75-125	1	30	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

QC Batch: MPRP/62323 | Analysis Method: EPA 6010C
QC Batch Method: EPA 3010 | Analysis Description: 6010C TCLP
Associated Lab Samples: 10342893001

METHOD BLANK: 2220478 | Matrix: Water
Associated Lab Samples: 10342893001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/04/16 10:36	
Barium	mg/L	ND	0.50		04/04/16 10:36	
Cadmium	mg/L	ND	0.015		04/04/16 10:36	
Chromium	mg/L	ND	0.050		04/04/16 10:36	
Lead	mg/L	ND	0.050		04/04/16 10:36	
Selenium	mg/L	ND	0.10		04/04/16 10:36	
Silver	mg/L	ND	0.050		04/04/16 10:36	

METHOD BLANK: 2219506 | Matrix: Water
Associated Lab Samples: 10342893001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/04/16 11:31	
Barium	mg/L	ND	0.50		04/04/16 11:31	
Cadmium	mg/L	ND	0.015		04/04/16 11:31	
Chromium	mg/L	ND	0.050		04/04/16 11:31	
Lead	mg/L	ND	0.050		04/04/16 11:31	
Selenium	mg/L	ND	0.10		04/04/16 11:31	
Silver	mg/L	ND	0.050		04/04/16 11:31	

METHOD BLANK: 2219507 | Matrix: Water
Associated Lab Samples: 10342893001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10		04/04/16 11:34	
Barium	mg/L	ND	0.50		04/04/16 11:34	
Cadmium	mg/L	ND	0.015		04/04/16 11:34	
Chromium	mg/L	ND	0.050		04/04/16 11:34	
Lead	mg/L	ND	0.050		04/04/16 11:34	
Selenium	mg/L	ND	0.10		04/04/16 11:34	
Silver	mg/L	ND	0.050		04/04/16 11:34	

LABORATORY CONTROL SAMPLE: 2220479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	5	5.3	105	80-120	

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QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

LABORATORY CONTROL SAMPLE: 2220479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	5	5.1	102	80-120	
Cadmium	mg/L	5	5.2	105	80-120	
Chromium	mg/L	5	5.0	101	80-120	
Lead	mg/L	5	5.1	102	80-120	
Selenium	mg/L	5	5.6	113	80-120	
Silver	mg/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2220480 2220481

Parameter	Units	10342898002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	5	5	5.3	5.3	107	106	75-125	0	30	
Barium	mg/L	0.58	5	5	5.7	5.7	102	102	75-125	0	30	
Cadmium	mg/L	ND	5	5	5.3	5.3	106	106	75-125	0	30	
Chromium	mg/L	ND	5	5	5.0	5.0	99	99	75-125	0	30	
Lead	mg/L	0.22	5	5	5.3	5.3	101	101	75-125	0	30	
Selenium	mg/L	ND	5	5	5.7	5.7	114	113	75-125	1	30	
Silver	mg/L	ND	2.5	2.5	2.6	2.6	106	105	75-125	0	30	

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(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

QC Batch: MSV/35076 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260B MSV TCLP
Associated Lab Samples: 10342893001, 10342893002

METHOD BLANK: 2221843 | Matrix: Water
Associated Lab Samples: 10342893001, 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	25.0	5.5	04/02/16 10:06	
1,2-Dichloroethane	ug/L	ND	25.0	4.2	04/02/16 10:06	
1,4-Dichlorobenzene	ug/L	ND	25.0	4.0	04/02/16 10:06	
2-Butanone (MEK)	ug/L	ND	125	62.2	04/02/16 10:06	
Benzene	ug/L	ND	25.0	5.4	04/02/16 10:06	
Carbon tetrachloride	ug/L	ND	25.0	8.8	04/02/16 10:06	
Chlorobenzene	ug/L	ND	25.0	5.8	04/02/16 10:06	
Chloroform	ug/L	ND	25.0	6.8	04/02/16 10:06	
Tetrachloroethene	ug/L	ND	25.0	4.8	04/02/16 10:06	
Trichloroethene	ug/L	ND	10.0	3.5	04/02/16 10:06	
Vinyl chloride	ug/L	ND	25.0	3.6	04/02/16 10:06	
1,2-Dichloroethane-d4 (S)	%.	100	75-125		04/02/16 10:06	
4-Bromofluorobenzene (S)	%.	100	75-125		04/02/16 10:06	
Toluene-d8 (S)	%.	99	75-125		04/02/16 10:06	

METHOD BLANK: 2223038 | Matrix: Water
Associated Lab Samples: 10342893001, 10342893002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	25.0	5.5	04/02/16 09:51	
1,2-Dichloroethane	ug/L	ND	25.0	4.2	04/02/16 09:51	
1,4-Dichlorobenzene	ug/L	ND	25.0	4.0	04/02/16 09:51	
2-Butanone (MEK)	ug/L	ND	125	62.2	04/02/16 09:51	
Benzene	ug/L	ND	25.0	5.4	04/02/16 09:51	
Carbon tetrachloride	ug/L	ND	25.0	8.8	04/02/16 09:51	
Chlorobenzene	ug/L	ND	25.0	5.8	04/02/16 09:51	
Chloroform	ug/L	ND	25.0	6.8	04/02/16 09:51	
Tetrachloroethene	ug/L	ND	25.0	4.8	04/02/16 09:51	
Trichloroethene	ug/L	ND	10.0	3.5	04/02/16 09:51	
Vinyl chloride	ug/L	ND	25.0	3.6	04/02/16 09:51	
1,2-Dichloroethane-d4 (S)	%.	99	75-125		04/02/16 09:51	
4-Bromofluorobenzene (S)	%.	101	75-125		04/02/16 09:51	
Toluene-d8 (S)	%.	99	75-125		04/02/16 09:51	

LABORATORY CONTROL SAMPLE: 2221844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	500	555	111	63-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

LABORATORY CONTROL SAMPLE: 2221844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	500	457	91	70-126	
1,4-Dichlorobenzene	ug/L	500	439	88	75-125	
2-Butanone (MEK)	ug/L	2500	2310	92	50-140	
Benzene	ug/L	500	494	99	72-125	
Carbon tetrachloride	ug/L	500	552	110	58-125	
Chlorobenzene	ug/L	500	478	96	75-125	
Chloroform	ug/L	500	464	93	71-125	
Tetrachloroethene	ug/L	500	491	98	67-125	
Trichloroethene	ug/L	500	495	99	75-125	
Vinyl chloride	ug/L	500	524	105	60-126	
1,2-Dichloroethane-d4 (S)	%.			103	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221845 2221846

Parameter	Units	10342885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	500	500	521	507	104	101	39-150	3	30	H2
1,2-Dichloroethane	ug/L	ND	500	500	465	463	92	92	69-125	0	30	H2
1,4-Dichlorobenzene	ug/L	ND	500	500	456	462	91	92	75-125	1	30	H2
2-Butanone (MEK)	ug/L	ND	2500	2500	2530	2560	99	100	58-138	1	30	H2
Benzene	ug/L	ND	500	500	489	496	97	99	58-135	1	30	H2
Carbon tetrachloride	ug/L	ND	500	500	508	523	102	105	50-146	3	30	H2
Chlorobenzene	ug/L	ND	500	500	478	494	96	99	69-128	3	30	H2
Chloroform	ug/L	ND	500	500	452	453	90	90	69-126	0	30	H2
Tetrachloroethene	ug/L	ND	500	500	479	486	96	97	41-146	1	30	H2
Trichloroethene	ug/L	ND	500	500	476	504	95	100	50-142	6	30	H2
Vinyl chloride	ug/L	ND	500	500	502	518	100	104	53-150	3	30	H2
1,2-Dichloroethane-d4 (S)	%.						98	104	75-125			
4-Bromofluorobenzene (S)	%.						100	98	75-125			
Toluene-d8 (S)	%.						100	101	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H2 Extraction or preparation was conducted outside of the recognized method holding time.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60482513 SLP SOLVENT PLUME
Pace Project No.: 10342893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10342893002	**Waste - Water**	EPA 3010	MPRP/62322	EPA 6010	ICP/27275
10342893001	**Waste - Soil**	EPA 3010	MPRP/62323	EPA 6010C	ICP/27276
10342893001	**Waste - Soil**	EPA 7470A	MERP/16264	EPA 7470A	MERC/19064
10342893002	**Waste - Water**	EPA 7470A	MERP/16264	EPA 7470A	MERC/19064
10342893001	**Waste - Soil**	EPA 8260B	MSV/35076		
10342893002	**Waste - Water**	EPA 8260B	MSV/35076		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10342893

Page: 1 of 1

2022888

Section A Required Client Information:

Company: AECOM
Address: 800 LASALLE SUITE 500 MPLS MN 55402
Email To: TONY.CORYELL@AECOM.COM
Phone: 612-376-2000 Fax:
Requested Due Date/TAT: NORMAL

Section B Required Project Information:

Report To: TONY.CORYELL@AECOM.COM
Copy To: BENJAMIN.KLAUS@AECOM.COM
Purchase Order No.:
Project Name: SLP SOLVENT PLUME
Project Number: 60482513

Section C Invoice Information:

Attention: TONY CORYELL
Company Name: AECOM
Address:
Pace Quote Reference:
Pace Project Manager: CAROL DAVY
Pace Profile #: 22057 #2

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER NPA

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	TCLP METALS	TCLP VOC (SOIL)	TCLP 8 RCRA METALS	TCLP VOC (WATER)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WASTE - SOIL	SL	G			3/29/16	0925		2	2									1	1				a1
2	WASTE - WATER	WT	G			3/29/16	0930		2	2											1	1		w2
3	TRIP BLANK	WT				3/29/16	0900		2				2									2		d03
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MELISSA MEELHUSEN / AECOM	3/29/16	10:10	[signature]	3/29/16	10:10	9.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MELISSA MEELHUSEN
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/29/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Appendix E

Waste Disposal Documentation

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Aecom

Project #: WO#: 10342893

10342893

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ B88A912167504 ☐ 151401164 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 9.4 **Cooler Temp Corrected (°C):** 9.3 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** KAC 3-29-16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL & WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☑ Yes	☐ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 70944				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

cool down phase

Project Manager Review: Carol Doug **Date:** 3/29/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

State Contract Order Form

Section 1

Doc Type: Contract

State Contract title: Waste Disposal Services State Contract #: 38104 State Contract Release #: H-69(5)
MPCA work order number: 3000015334 Project name: St. Louis Park Solvent Plume
Service Cert# (if applicable): N/A

State Contractor Information

Contractor name: Clean Harbors Environmental Services, Inc
Address: 211 Holiday Avenue, Cannon Falls, MN 55009
Contact name: Laura McMahon Phone: 507-263-0200 Vendor quote no.: N/A (if applicable)

Supplemental Terms

1. Show the State Contract number on invoice and all tags, packages, and correspondence.
2. This MPCA State Contract Order Form incorporates by reference all terms, conditions, and specifications of the Contract, the RFP/RFB and vendor's response. In case of a conflict in terms, the order of precedence shall be: First; this MPCA State Contract Order Form, second; the RFP/RFB, third; the vendor's response.
3. All deliveries/services hereunder shall comply with all applicable State of Minnesota and federal laws.
4. Invoicing must match line items on the MPCA State Contract Order Form.
5. Notwithstanding any language to the contrary herein, the AECOM shall be solely responsible for the payment of the amounts payable by the State of Minnesota under this MPCA State Contract Order Form, As provided in MPCA Contract No. _____ The MPCA Contractor's responsibility under this State Contract Order Form is to make payments of amounts due hereunder, and as provided in requests for payment submitted and approved by the State.
6. If State Contract requires prevailing wage, the State Contractor must submit prevailing wage payroll information to Prevailingwage.pca@state.mn.us. See specific State Contract Release for details.

Ship to Information

Name: Minnesota Pollution Control Agency
Address: 3326 Gorham Avenue, St. Louis Park, MN 55426
Contact name: _____ Phone: _____ Discount terms: _____
Ship via: _____ Freight terms: _____ Requested delivery: _____

Bill to Information

Name: AECOM
Address: 800 LaSalle Avenue Suite 500, Minneapolis, MN 55402
Contact name: Tony Coryell Phone: 612-376-2427

Line	Description	Quantity	Unit	Unit price	Amount
1	Non-hazardous soil	1 drum	55 gallon	$85.00	$85.00
2	Non-hazardous liquids	1 drum	55 gallon	$75.00	$75.00
3	Mobilization of waste hauling vehicle	50	miles	$5.24	$262.00
4					
				Order total	$422.00

MPCA Contractor name (print): _____
Signature: _____
Date: _____ Phone: _____
MPCA contract number: _____

State Contractor name (print): Laura McMahon
Signature: Laura McMahon
Date: 4-15-2016 Phone: _____
Work order number: _____

Site Address: 3326 Gorham Avenue
Saint Louis Park,MN 55426

SC PPW 2/24/2015

WORK ORDER NO 1601248567

DOCUMENT NO. 1137779

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Service, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 Pioneer Tank Lines VEHICLE ID #

EPA ID # MND044176113 TRANS. 2 PHONE (612)436-8296

DESIGNATED FACILITY			SHIPPER		
Clean Harbors Deer Trail LLC			Minnesota Pollution Control Agency		
FACILITY EPA ID # COD991300484			SHIPPER EPA ID # NONEREQUIRED		
ADDRESS 108555 East Highway 36			ADDRESS c/o AECOM 800 LaSalle Avenue Suite 500		
CITY Deer Trail	STATE CO	ZIP 80105	CITY Minneapolis	STATE MN	ZIP 55402

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
			A NON DOT REGULATED, (WATER)		
			B NON DOT REGULATED, (SOIL)		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Minnesota Pollution Control Agency
A.CH1180215 B.CH1180217

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER			
TRANSPORTER 1			
TRANSPORTER 2			
RECEIVED BY			

1

CHI 107

Appendix F

Data Validation Reports

Environment

Submitted to:
Minnesota Pollution Control Agency
St. Paul, MN

Submitted by:
AECOM
Minneapolis, MN
60482513
May 2016

May 31, 2016

Limited Data Validation Report

Soil Samples
Solvent Plume Investigations
St. Louis Park, MN

Pace Analytical Services, Inc. Data
February and March 2016 Sampling Events

Prepared By Lisa Smith
Environmental Chemist

Overview

The samples analyzed for the soil sampling event at the St. Louis Park, Minnesota site from February 22 through March 23, 2016 are listed in the Table of Samples Analyzed (pages 3-4). Limited data validation was performed on a total of 65 distinct soil samples, six field duplicates, and five trip blanks.

Samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota (Pace). All analyses were performed at Pace.

The reviewed analyses were:

- VOCs by SW-846 GC/MS method 8260B.

The Analytical Limited Data Validation Checklist is presented as pages 5-10. Review criteria from the following documents were considered when evaluating the submitted data:

- *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008,
- *Sampling and Analysis Plan (SAP),* Solvent Plume Investigations St. Louis Park, MN, January 2016,
- Control limits provided in the analytical reports.

The following data components were reviewed during the limited data validation procedure:

Submitted Deliverables
Case Narratives (including laboratory flags)
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, dilution factors
Holding times
Method blank results
Trip blank results
Organic surrogate recoveries
Laboratory control spike/laboratory control spike duplicate (LCS/LCSD) results
Matrix spike/matrix spike duplicate (MS/MSD) results
Field duplicate results

Data Validation Qualifiers Assigned During this Review

UJ Estimated reporting limit

Assigned qualifiers are detailed in the Analytical Limited Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (page 11).

Overall Data Assessment

The data are suitable for their intended use with the qualifications and clarifications noted. Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable.

Table of Samples Analyzed
Soil Sampling
St. Louis Park, Minnesota

Soil and Soil QC Samples
February and March 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	Pace-MN SDG	Pace-MN ID
Soil	B32-S-77		10339856	10339856001	2/22/2016 14:45
Soil	B32-S-38		10339856	10339856002	2/22/2016 15:00
Soil	B32-S-94	MS/MSD	10339856	10339856003	2/22/2016 15:15
Soil	DUP-1	FD of B32-S-94	10339856	10339856004	2/22/2016 15:00
Soil	B29-S-53		10339856	10339856005	2/23/2016 15:30
Soil	DUP-2	FD of B29-S-53	10339856	10339856006	2/23/2016 15:30
Soil	B29-S-34		10339856	10339856007	2/23/2016 16:30
Soil	B29-S-80		10339856	10339856008	2/23/2016 17:00
Soil	B30-S-98		10339856	10339856009	2/24/2016 11:00
Soil	B30-S-36		10339856	10339856010	2/24/2016 11:15
Soil	B30-S-45		10339856	10339856011	2/24/2016 14:45
Soil QC	TRIP BLANK	Trip Blank	10339856	10339856012	2/24/2016 0:00
Soil	B31-S-33		10340392	10340392001	2/29/2016 11:05
Soil	B31-S-47		10340392	10340392002	2/29/2016 11:10
Soil	B31-S-52		10340392	10340392003	2/29/2016 11:15
Soil	B31-S-53		10340392	10340392004	2/29/2016 11:20
Soil	B31-S-83		10340392	10340392005	2/29/2016 12:15
Soil	B22-S-32		10340392	10340392006	3/1/2016 13:15
Soil	B22-S-79		10340392	10340392007	3/1/2016 14:15
Soil	B22-S-89		10340392	10340392008	3/1/2016 14:40
Soil	B21-S-30		10340392	10340392009	3/2/2016 12:40
Soil	B21-S-47	MS/MSD	10340392	10340392010	3/2/2016 12:45
Soil	B21-S-53		10340392	10340392011	3/2/2016 12:50
Soil	B21-S-78		10340392	10340392012	3/2/2016 12:55
Soil	B21-S-93		10340392	10340392013	3/2/2016 13:05
Soil QC	TB-2	Trip Blank	10340392	10340392014	2/29/2016 7:00
Soil	B28-S-58		10341254	10341254001	3/7/2016 13:25
Soil	B28-S-64		10341254	10341254002	3/7/2016 13:40
Soil	B28-S-72		10341254	10341254003	3/7/2016 14:10
Soil	B28-S-23		10341254	10341254004	3/7/2016 13:15
Soil	B26-S-34		10341254	10341254005	3/8/2016 12:20
Soil	B26-S-47		10341254	10341254006	3/8/2016 13:15
Soil	B26-S-53		10341254	10341254007	3/8/2016 13:30
Soil	B26-S-58		10341254	10341254008	3/8/2016 13:45
Soil	B26-S-73		10341254	10341254009	3/8/2016 14:25
Soil	DUP-S-3	FD of B26-S-47; MS	10341254	10341254010	3/8/2016 13:25
Soil	DUP-S-4	FD of B26-S-58	10341254	10341254011	3/8/2016 13:55
Soil QC	TRIP BLANK-3	Trip Blank	10341254	10341254012	3/7/2016 7:00
Soil	B25-S-49		10341254	10341254013	3/11/2016 12:30
Soil	B25-S-50		10341254	10341254014	3/11/2016 12:35

Table of Samples Analyzed
Soil Sampling
St. Louis Park, Minnesota

Soil and Soil QC Samples
February and March 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	Pace-MN SDG	Pace-MN ID
Soil	B25-S-53		10341254	10341254015	3/11/2016 12:45
Soil	DUP-S-4	FD of B25-S-53	10341254	10341254016	3/11/2016 12:50
Soil	B25-S-55		10341254	10341254017	3/11/2016 12:55
Soil	DUP-S-5	FD of B25-S-55	10341254	10341254018	3/11/2016 13:00
Soil	B25-S-58		10341254	10341254019	3/11/2016 13:05
Soil	B25-S-65		10341254	10341254020	3/11/2016 13:10
Soil	B25-S-84		10341254	10341254021	3/11/2016 13:15
Soil	B24-5-51		10342030	10342030001	3/14/2016 12:45
Soil	B24-5-56		10342030	10342030002	3/14/2016 12:50
Soil	B24-5-63		10342030	10342030003	3/14/2016 12:55
Soil	B24-5-91		10342030	10342030004	3/14/2016 13:00
Soil	B24-5-96		10342030	10342030005	3/14/2016 13:05
Soil	B23-5-56		10342030	10342030006	3/15/2016 11:00
Soil	B23-5-76		10342030	10342030007	3/15/2016 14:15
Soil	B23-5-78		10342030	10342030008	3/15/2016 14:00
Soil	B23-5-93		10342030	10342030009	3/15/2016 15:00
Soil	B39-5-53		10342030	10342030010	3/17/2016 10:30
Soil	B39-5-57		10342030	10342030011	3/17/2016 10:45
Soil	B39-5-61		10342030	10342030012	3/17/2016 11:00
Soil	B38-5-42		10342030	10342030013	3/17/2016 12:45
Soil	B38-5-49		10342030	10342030014	3/17/2016 13:00
Soil	B38-5-60		10342030	10342030015	3/17/2016 13:15
Soil	B37-5-45		10342030	10342030016	3/17/2016 14:15
Soil	B37-5-50	MS/MSD	10342030	10342030017	3/17/2016 14:30
Soil QC	TRIP BLANK-4	Trip Blank	10342030	10342030018	3/14/2016 7:00
Soil	B43-S-49	MS	10342549	10342549001	3/22/2016 12:55
Soil	B43-S-53		10342549	10342549002	3/22/2016 13:00
Soil	B43-S-71		10342549	10342549003	3/22/2016 13:05
Soil	B43-S-76		10342549	10342549004	3/22/2016 13:10
Soil	B27-S-43		10342549	10342549005	3/23/2016 11:10
Soil	B27-S-45		10342549	10342549006	3/23/2016 11:15
Soil	B27-S-55		10342549	10342549007	3/23/2016 11:20
Soil	B27-S-57		10342549	10342549008	3/23/2016 11:25
Soil	B27-S-63		10342549	10342549009	3/23/2016 11:30
Soil	B27-S-73		10342549	10342549010	3/23/2016 11:35
Soil QC	TRIP BLANK	Trip Blank	10342549	10342549011	3/22/2016 7:00

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Project Name: Solvent Plume Investigations St. Louis Park, Minnesota	Laboratory: Pace Analytical Services, Inc. of Minneapolis, MN (Pace)
Project Reference: Minnesota Pollution Control Agency	Sample Matrix: Soil and Soil QC samples
AECOM Project: 60482513	Sample Start Date: 2/22/16
Validated By/Date Validated: Lisa Smith 5/31/16 (completed)	Sample End Date: 3/23/16

Samples Analyzed: see Table of Samples Analyzed, Soil Sampling, St. Louis Park, Minnesota, Soil and Soil QC Samples, February and March 2016 Sampling Event (pages 3-4).

Parameters Reviewed:

- VOCs by SW-846 GC/MS method 8260B.

Laboratory Project IDs (SDGs):

Pace: 10339856, 10340392, 10341254, 10342030, and 10342549.

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of LCS/LCSD and MS/MSD pairs. Evaluation of field and laboratory duplicates for precision was performed using the calculated relative percent difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Laboratory RPD precision measurements were compared to limits included in the laboratory reports. For field duplicates, a criteria of <50% RPD was used.

No data required qualification based on laboratory or field duplicate RPDs, precision is acceptable based on the data submitted. Precision measurements are reviewed in items 17 and 21.

Accuracy:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Laboratory accuracy is a measure of the system bias, and was measured by evaluating LCS, LCSD, MS, MSD, and organic system monitoring compound (surrogate) percent recoveries (%Rs).

LCS and LCSD %Rs demonstrated overall analytical performance. MS and MSD %Rs provided information on sample matrix interferences. System monitoring compound or surrogate recoveries measured system performance and efficiency during organic analysis. %Rs were compared to QC limits included in the data packages. Although some data require qualification, overall accuracy is acceptable based on the data submitted, since a majority of the data are unqualified and no data are rejected. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.

Method Compliance:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, laboratory blanks, and other method specific requirements such as calibrations and internal standards (as noted in the case narratives) against method specified requirements. Although some data require qualification, overall method compliance is acceptable, based on the data submitted, since a majority of the data are unqualified and no data points are rejected based on these measurements. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.

Completeness:	**X**	Acceptable		Unacceptable	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits and, laboratory case narratives. Completeness also included 100% review of the laboratory sample data results. All reported data are usable, some with qualification. Overall target analyte completeness of the dataset is 100% and is acceptable.						
VALIDATION CRITERIA CHECK						
Data validation qualifiers assigned in this review were: UJ Estimated reporting limit The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary. **Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Page 11).**						
1. Did the laboratory identify any non-conformances related to the analytical results?	**X**	Yes		No	LS	Initials
Laboratory non-conformances were identified in the case narratives and using laboratory qualifiers. Non-conformances identified included second-source calibration verification exceedances (SSCV), continuing calibration (CCV) exceedances, LCS exceedances, and MS/MSD exceedances. Non-conformances specific to data packages are considered minor, and are listed below. 10340392: The sample collection time on the label (13:15) did not match the time on the chain-of-custody (CoC) (11:15) for sample B22-S-32. The laboratory used the collection time listed on the sample label.						
2. Were sample Chain-of-Custody (COC) forms complete?	**X**	Yes		No	LS	Initials
Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	LS	Initials
Comments: All requested analyses, as designated on the supplied COC forms, were completed and reported.						
4. Were samples received in good condition and at the appropriate temperature?	**X**	Yes		No	LS	Initials
Comments: Samples were received intact and in good condition with acceptable cooler temperatures of <6°C as noted on the Sample Condition Upon Receipt form.						
5. Were the reported analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	LS	Initials
Comments: The reported methods are in compliance with the parameters requested on the COCs and the SAP.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	LS	Initials
Comments: Dilutions were not required during analysis. Detection limits were not specified in the SAP; however, the detection limits reported are consistent with those typically reported for the soil matrix with methanol preservation.						

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	LS	Initials
Comments: The target analytes were those specified on the COC and in the SAP.						
8. Were sample holding times met?	**X**	Yes		No	LS	Initials
Comments: The method required holding time periods for soil samples were as follows: - 14 days from sample collection to analysis for method 8260B analysis for methanol preserved samples. Analytical holding times were met for all project samples and analyses.						
9. Were correct concentration units reported?	**X**	Yes		No	LS	Initials
Comments: Typical concentration units were reported. Method 8260B results were reported as µg/kg (ppb).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	LS	Initials
Comments: All assigned laboratory flags were reviewed and evaluated during the limited validation process. Data validation qualifiers override any assigned laboratory data flags.						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	LS	Initials
Comments: The submitted laboratory blanks were free of target analyte contamination.						
12. Were trip blank and/or equipment rinse blank samples free of target analyte contamination?	**X**	Yes		No	LS	Initials
Comments: The trip blank samples were free of target analyte contamination.						
13. Were instrument calibrations within method or data validation control limits?		Yes	**X**	No	LS	Initials

Comments: The laboratory identified second source calibration verification (SSCV) and calibration verification exceedances in the case narrative. These were also identified using laboratory qualifiers. Exceedances are listed in the table below:

Batch	Analyte	Description	Qualifications
MSV/34765	Chloroethane	CCV-high recovery	None. Samples nondetect.
MSV/34798	Dichlorofluoromethane	CCV-high recovery	None. Samples nondetect.
MSV/34820	Chloroethane Dichlorofluoromethane Trichlorofluoromethane	CCV-high recovery	None. Samples nondetect.
MSV/34882	Dichlorofluoromethane	SSCV criteria not met	Not detected. Qualified estimated (UJ).
MSV/34882	Dichlorofluoromethane Trichlorofluoromethane	CCV-high recovery	None. Samples nondetect.
MSV/34929	Dichlorofluoromethane Diethyl ether	CCV-high recovery	None. Samples nondetect.
MSV/34944	Dichlorofluoromethane	CCV-high recovery	None. Samples nondetect.
MSV/34997	Dichlorofluoromethane Trichlorofluoromethane	CCV-high recovery	None. Samples nondetect.

Results associated with high recoveries were not detected, and did not require qualification. **Results associated with low recoveries were nondetect and qualified as estimated (UJ).** The data validation qualifiers should be considered a minimum level of qualification since the specific calibration results were not provided.

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Page 11).

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

14. Were surrogate recoveries within control limits?	**X**	Yes		No	LS	Initials
Comments: Surrogate recoveries were within control limits for all project samples.						
15. Were laboratory control sample recoveries within control limits?		Yes	**X**	No	LS	Initials

Comments: Reported LCS/LCSD recoveries were within laboratory QC limits provided in the data packages, with the exception of those listed in the table below.

Batch	Analyte	LCS/LCSD % Recovery	Recovery Limits	Comment
MSV/34787	1,1,2,2-Tetrachloroethane	**40**/--	50-138	**Associated results were nondetect and qualified UJ.**
MSV/34820	Dichlorofluoromethane	**178**/--	36-144	None. Samples nondetect.
MSV/34840	Chloroethane	**152**/--	39-148	None. Samples nondetect.
	Dichlorofluoromethane	**172**/--	36-144	
MSV/34882	Bromodichloromethane	**64**/--	67-125	**Associated results were nondetect and qualified UJ.**
	Dibromochloromethane	**64**/--	67-125	
MSV/34929	Dichlorofluoromethane	**268/151**	36-144	None. Samples nondetect.
	Diethyl ether	**143/**119	51-125	
MSV/34938	Dibromochloromethane	**63**/--	67-125	**Associated results were nondetect and qualified UJ.**
	trans-1,3-Dichloropropene	**66**/--	67-125	
MSV/34944	Dichlorofluoromethane	**143/154**	36-144	None. Samples nondetect.
	Diethyl ether (Ethyl ether)	108/**128**	51-125	
MSV/34997	Dichlorofluoromethane	**166/165**	36-144	None. Samples nondetect.

Results associated with high recoveries were nondetect and did not require qualification. **Results associated with low recoveries were nondetect and qualified as estimated (UJ). Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Page 11).**

16. Were matrix spike recoveries within control limits?		Yes	**X**	No	LS	Initials

Comments: Extra volume was submitted to the laboratory for MS/MSD analysis for samples and matrix spikes were analyzed on project samples at a frequency of 8%. The MS/MSDs are identified in the Table of Samples Analyzed (pages 3-4). Recoveries were within the laboratory QC limits provided in the data package, except as noted in the table below.

Analyte	MS/MSD % Recovery	Recovery Limits
B21-S-47:		
Dichlorofluoromethane	134/**163**	30-150
B37-5-50:		
Dichlorofluoromethane	**166**/--	30-150

No qualifiers were assigned since the high recoveries were associated with non-detected results.

17. Were duplicate RPDs within control limits?		Yes	**X**	No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: RPDs for LCS/LCSD duplicate pairs were in control except as noted in the table below:

Batch	Analyte	RPD	RPD Limits
MSV/34929	Dichlorofluoromethane	**56**	20
	Trichlorofluoromethane	**40**	20
MSV/34997	Acetone	**27**	20
	Dichlorodifluoromethane	**31**	20
	Tetrahydrofuran	**30**	20
	Vinyl chloride	**23**	20

Associated results were not detected, and did not require qualification.

MS/MSDs were analyzed on project samples at a frequency of 5% and are identified in the Table of Samples Analyzed (pages 3-4). RPDs for MS/MSD duplicate pairs were in control except as noted in the table below:

Analyte	RPD	RPD Limits
B32-S-94:		
1,1,2-Trichlorotrifluoroethane	**31**	30
1,1-Dichloroethane	**31**	30
1,1-Dichloroethene	**32**	30
Allyl chloride	**33**	30
Diethyl ether (Ethyl ether)	**46**	30
Methylene Chloride	**35**	30
trans-1,2-Dichloroethene	**32**	30
Trichlorofluoromethane	**39**	30

Results associated with high RPDs were not detect and did not require qualification.

18. Were organic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation – Organic system performance data were not supplied in analytical laboratory reports and were therefore not included in this data review.

19. Were internal standards within method criteria for GC/MS sample analyses?	NA	Yes	NA	No	LS	Initials

Comments: *Not applicable for this level of limited data validation – GC/MS Internal standard data were not supplied in analytical laboratory reports and were therefore not included in this data review.*

20. Were inorganic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation or for the methods reported.

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	LS	Initials

Comments: Six field duplicates were collected and analyzed for VOCs by 8260B. RPDs were calculated for samples with detections in both the field and duplicate sample. RPDs are not applicable for results that were undetected in both samples and these results are not presented. The following RPDs were calculated:

Parameter	Sample (ug/kg	Field Duplicate (ug/kg)	RPD (%)
B25-S-55 /DUP-S-5:			
Tetrachloroethene	99.6	86.2	14.4

The control limits of 0-50% were met.

22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation.

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	NA	Yes	NA	No	LS	Initials
Not applicable, an EDD was not required.						
24. Additional Comments: **Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Page 11).**						

Table of Qualified Analytical Results
Soil Sampling
St. Louis Park, Minnesota

Soil and Soil QC Samples
February and March 2016 Sampling Event

Sample ID	Lab ID	Method	Analyte	Qualifier	Reason
B24-5-51	10342030001	SW8260B	Dibromochloromethane	UJ	l
B24-5-51	10342030001	SW8260B	trans-1,3-Dichloropropene	UJ	l
B24-5-56	10342030002	SW8260B	Dibromochloromethane	UJ	l
B24-5-56	10342030002	SW8260B	trans-1,3-Dichloropropene	UJ	l
B24-5-63	10342030003	SW8260B	Dibromochloromethane	UJ	l
B24-5-63	10342030003	SW8260B	trans-1,3-Dichloropropene	UJ	l
B24-5-91	10342030004	SW8260B	Dibromochloromethane	UJ	l
B24-5-91	10342030004	SW8260B	trans-1,3-Dichloropropene	UJ	l
B24-5-96	10342030005	SW8260B	Dibromochloromethane	UJ	l
B24-5-96	10342030005	SW8260B	trans-1,3-Dichloropropene	UJ	l
B28-S-23	10341254004	SW8260B	Bromodichloromethane	UJ	l
B28-S-23	10341254004	SW8260B	Dibromochloromethane	UJ	l
B28-S-23	10341254004	SW8260B	Dichlorofluoromethane	UJ	c
B28-S-58	10341254001	SW8260B	Bromodichloromethane	UJ	l
B28-S-58	10341254001	SW8260B	Dibromochloromethane	UJ	l
B28-S-58	10341254001	SW8260B	Dichlorofluoromethane	UJ	c
B28-S-64	10341254002	SW8260B	Bromodichloromethane	UJ	l
B28-S-64	10341254002	SW8260B	Dibromochloromethane	UJ	l
B28-S-64	10341254002	SW8260B	Dichlorofluoromethane	UJ	c
B28-S-72	10341254003	SW8260B	Bromodichloromethane	UJ	l
B28-S-72	10341254003	SW8260B	Dibromochloromethane	UJ	l
B28-S-72	10341254003	SW8260B	Dichlorofluoromethane	UJ	c
B29-S-34	10339856007	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
B29-S-53	10339856005	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
B29-S-80	10339856008	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
B30-S-36	10339856010	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
B30-S-98	10339856009	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
DUP-2	10339856006	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
TRIP BLANK	10339856012	SW8260B	1,1,2,2-Tetrachloroethane	UJ	l
TRIP BLANK-3	10341254012	SW8260B	Bromodichloromethane	UJ	l
TRIP BLANK-3	10341254012	SW8260B	Dibromochloromethane	UJ	l
TRIP BLANK-3	10341254012	SW8260B	Dichlorofluoromethane	UJ	c
TRIP BLANK-4	10342030018	SW8260B	Dibromochloromethane	UJ	l
TRIP BLANK-4	10342030018	SW8260B	trans-1,3-Dichloropropene	UJ	l

Flags:
UJ – assigned to not-detected results, estimated reporting limit

Reason Codes:
c – calibration issue
l – lcs recovery

Environment

Submitted to:
Minnesota Pollution Control Agency
St. Paul, MN

Submitted by:
AECOM
Minneapolis, MN
60482513
May 2016

May 24, 2016

Limited Data Validation Report

Groundwater Samples
Solvent Plume Investigations
St. Louis Park, MN

MDH Public Health Laboratory Data
February through April 2016 Sampling Events

Prepared By Lisa Smith
Environmental Chemist

Overview

The samples analyzed for the groundwater monitoring event at the St. Louis Park, Minnesota site from February 25 through April 20, 2016 are listed in the Table of Samples Analyzed (pages 3-6). Limited data validation was performed on a total of 108 distinct groundwater samples, eleven field duplicates, four equipment rinse blank samples, and six trip blanks.

Samples were submitted to MDH Public Health Laboratory, of St Paul, Minnesota (MDH). All analyses were performed at MDH.

The reviewed analyses were:

- VOCs by SW-846 GC/MS method 8260B.

The Analytical Limited Data Validation Checklist is presented as pages 7-14. Review criteria from the following documents were considered when evaluating the submitted data:

- *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008,
- *Sampling and Analysis Plan (SAP),* Solvent Plume Investigations St. Louis Park, MN, January 2016,
- Control limits provided in the analytical reports.

The following data components were reviewed during the limited data validation procedure:

Submitted Deliverables
Case Narratives (including laboratory flags)
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, dilution factors
Holding times
Method blank results
Equipment and trip blank results
Organic surrogate recoveries
Laboratory control spike (LCS) results
Matrix spike (MS) results
Laboratory duplicate results, or matrix spike duplicates (MSD) results
Field duplicate results

Data Validation Qualifiers Assigned During this Review

J Estimated concentration

UJ Estimated reporting limit

Assigned qualifiers are detailed in the Analytical Limited Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (pages 15-16).

Overall Data Assessment

The data are suitable for their intended use with the qualifications and clarifications noted. Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable.

Reporting limits (RLs) were elevated due to sample matrix or high target analyte concentrations. RLs achieved should be reviewed to assure they meet project objectives.

Table of Samples Analyzed
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March, and April 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	MDH Work Order	MDH ID
Groundwater	B32-W-(90-94)		2/25/2016 10:15	16B1468	16B1468-01
Groundwater	B32-W-(73-77)		2/25/2016 10:30	16B1468	16B1468-02
Groundwater	B29-W-(74-78)		2/25/2016 13:00	16B1468	16B1468-03
Groundwater	B29-W-(50-54)	MS	2/25/2016 13:30	16B1468	16B1468-04
Groundwater	Dup-W-1	FD of B29-W-(50-54)	2/25/2016	16B1468	16B1468-05
Groundwater	B30-W-(94-98)		2/25/2016 15:00	16B1468	16B1468-06
Groundwater	B30-W-(41-45)	Lab Duplicate	2/25/2016 15:15	16B1468	16B1468-07
Water QC	Trip Blank-1	Trip Blank	2/22/2016 8:00	16B1468	16B1468-08
Groundwater	B31-W-(80-84)		2/29/2016 14:25	16C0268	16C0268-01
Groundwater	B31-W-(53-57)	Lab Duplicate	2/29/2016 14:40	16C0268	16C0268-02
Groundwater	B31-W-(48-52)		2/29/2016 15:15	16C0268	16C0268-03
Groundwater	B31-W-(43-47)	MS	2/29/2016 15:30	16C0268	16C0268-04
Groundwater	B22-W-(86-90)		3/3/2016 10:00	16C0268	16C0268-05
Groundwater	B22-W-(76-80)		3/3/2016 10:30	16C0268	16C0268-06
Groundwater	B22-W-(76-80)MS		3/3/2016 10:35	16C0268	16C0268-07
Groundwater	B22-W-(76-80)MSD		3/3/2016 10:35	16C0268	16C0268-08
Groundwater	B21-W-(86-90)		3/3/2016 13:15	16C0268	16C0268-09
Groundwater	B21-W-(75-79)		3/3/2016 13:40	16C0268	16C0268-10
Groundwater	B21-W-(50-54)		3/3/2016 14:10	16C0268	16C0268-11
Groundwater	B21-W-(44-48)		3/3/2016 14:20	16C0268	16C0268-12
Water QC	Trip Blank2	Trip Blank	2/29/2016 7:00	16C0268	16C0268-13
Groundwater	B36-W-(94.5-98.5)		3/9/2016 10:45	16C0573	16C0573-01
Groundwater	B36-W-(62-66)		3/9/2016 11:10	16C0573	16C0573-02
Groundwater	B36-W-(58-62)	MS	3/9/2016 11:25	16C0573	16C0573-03
Groundwater	B36-W-(58-62 MS)	Lab Duplicate	3/9/2016 11:30	16C0573	16C0573-04
Groundwater	B36-W-(58-62 MSD)		3/9/2016 11:30	16C0573	16C0573-05
Groundwater	B36-W-(54-58)		3/9/2016 11:45	16C0573	16C0573-06
Groundwater	B36-W-(50-54)		3/9/2016 12:00	16C0573	16C0573-07
Groundwater	B36-W-(46-50)		3/9/2016 12:15	16C0573	16C0573-08
Groundwater	DUP-W-2	FD of B36-W-(50-54)	3/9/2016 12:10	16C0573	16C0573-09
Groundwater	DUP-W-3	FD of B36-W-(46-50)	3/9/2016 12:20	16C0573	16C0573-10
Groundwater	B35-W-(96-100)		3/9/2016 13:50	16C0573	16C0573-11
Groundwater	B35-W-(62-66)		3/9/2016 14:15	16C0573	16C0573-12
Groundwater	B35-W-(58-62)	MS	3/9/2016 14:25	16C0573	16C0573-13
Groundwater	B35-W-(58-62 MS)	Lab Duplicate	3/9/2016 14:30	16C0573	16C0573-14
Groundwater	B35-W-(58-62) MSD		3/9/2016 14:30	16C0573	16C0573-15
Groundwater	B35-W-(54-58)		3/9/2016 14:40	16C0573	16C0573-16
Groundwater	B35-W-(50-54)		3/9/2016 14:50	16C0573	16C0573-17
Groundwater	B35-W-(46-50)		3/9/2016 15:05	16C0573	16C0573-18

Table of Samples Analyzed
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March, and April 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	MDH Work Order	MDH ID
Groundwater	DUP-W-4	FD of B35-W-(50-54)	3/9/2016 14:55	16C0573	16C0573-19
Groundwater	DUP-W-5	FD of B35-W-(46-50)	3/9/2016 15:10	16C0573	16C0573-20
Groundwater	B28-W-(77-81)		3/10/2016 9:50	16C0573	16C0573-21
Groundwater	B28-W-(69-73)		3/10/2016 10:05	16C0573	16C0573-22
Groundwater	B28-W-(61-65)		3/10/2016 10:25	16C0573	16C0573-23
Groundwater	B28-W-(53-57)		3/10/2016 10:35	16C0573	16C0573-24
Groundwater	B28-W-(39-43)		3/10/2016 10:45	16C0573	16C0573-25
Groundwater	B26-W-(77-81)		3/10/2016 12:25	16C0573	16C0573-26
Groundwater	B26-W-(70-74)		3/10/2016 12:35	16C0573	16C0573-27
Groundwater	B26-W-(60-64)		3/10/2016 12:45	16C0573	16C0573-28
Groundwater	B26-W-(54-58)		3/10/2016 12:55	16C0573	16C0573-29
Groundwater	B26-W-(50-54)		3/10/2016 13:00	16C0573	16C0573-30
Groundwater	B26-W-(48-44)		3/10/2016 13:10	16C0573	16C0573-31
Groundwater	DUP-W-6	FD of B26-W-(48-44)	3/10/2016 13:20	16C0573	16C0573-32
Groundwater	B26-W-(31-35)		3/10/2016 13:35	16C0573	16C0573-33
Water QC	TRIP BLANK-3	Trip Blank	3/9/2016 7:00	16C0573	16C0573-34
Groundwater	B24-W-(88-92)	Lab Duplicate	3/16/2016 9:30	16C0973	16C0973-01
Groundwater	B24-W-(74-78)		3/16/2016 10:00	16C0973	16C0973-02
Groundwater	B24-W-(61-65)		3/16/2016 10:10	16C0973	16C0973-03
Groundwater	B24-W-(51-55)		3/16/2016 10:20	16C0973	16C0973-04
Groundwater	B24-W-(47-51)		3/16/2016 10:30	16C0973	16C0973-05
Groundwater	B23-W-(89-93)	MS	3/16/2016 11:15	16C0973	16C0973-06
Groundwater	B23-W-(78-82)		3/16/2016 11:30	16C0973	16C0973-07
Groundwater	B23-W-(74-78)		3/16/2016 11:45	16C0973	16C0973-08
Groundwater	B23-W-(61-65)		3/16/2016 12:00	16C0973	16C0973-09
Groundwater	B23-W-(54-58)		3/16/2016 12:15	16C0973	16C0973-10
Groundwater	B23-W-(50-54)		3/16/2016 12:30	16C0973	16C0973-11
Groundwater	B23-W-(46-50)		3/16/2016 12:45	16C0973	16C0973-12
Groundwater	B25-W-(93-97)		3/16/2016 14:00	16C0973	16C0973-13
Groundwater	B25-W-(73-77)		3/16/2016 14:15	16C0973	16C0973-14
Groundwater	B25-W-(69-73)		3/16/2016 14:30	16C0973	16C0973-15
Groundwater	B25-W-(65-69)		3/16/2016 14:45	16C0973	16C0973-16
Groundwater	B25-W-(58-62)		3/16/2016 15:15	16C0973	16C0973-17
Groundwater	B25-W-(54-58)		3/16/2016 15:30	16C0973	16C0973-18
Groundwater	B25-W-(45-49)	Lab Duplicate	3/16/2016 16:00	16C0973	16C0973-19
Groundwater	Dup-W-7	FD of B23-W-(78-82)	3/16/2016	16C0973	16C0973-20
Groundwater	Dup-W-8	FD of B25-W-(54-58)	3/16/2016	16C0973	16C0973-21
Groundwater	B39-W-(57-61)	MS	3/18/2016 9:00	16C0973	16C0973-22
Groundwater	B39-W-(53-57)		3/18/2016 9:15	16C0973	16C0973-23
Groundwater	B39-W-(48-52)		3/18/2016 9:30	16C0973	16C0973-24

Table of Samples Analyzed
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March, and April 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	MDH Work Order	MDH ID
Groundwater	B38-W-(56-60)		3/18/2016 10:00	16C0973	16C0973-25
Groundwater	B38-W-(45-49)		3/18/2016 10:15	16C0973	16C0973-26
Groundwater	B37-W-(49-53)		3/18/2016 11:00	16C0973	16C0973-27
Water QC	ERB-1	Equipment Blank	3/18/2016 11:10	16C0973	16C0973-28
Groundwater	B37-W-(41-45)		3/18/2016 11:15	16C0973	16C0973-29
Water QC	TripBlank4	Trip Blank	3/16/2016 7:00	16C0973	16C0973-30
Groundwater	B25-W-(41-45)		3/16/2016 16:15	16C0973	16C0973-31
Groundwater	B43-W-(73-77)	MS	03/22/2016 13:46	16C1177	16C1177-01
Groundwater	B43-W-(68-72)		03/22/2016 14:00	16C1177	16C1177-02
Groundwater	B43-W-(57-61)		03/22/2016 14:15	16C1177	16C1177-03
Groundwater	B43-W-(53-57)		03/22/2016 14:26	16C1177	16C1177-04
Groundwater	B43-W-(49-53)		03/22/2016 14:40	16C1177	16C1177-05
Groundwater	B43-W-(45-49)		03/22/2016 14:50	16C1177	16C1177-06
Water QC	EB-2	Equipment Blank	03/22/2016 15:00	16C1177	16C1177-07
Groundwater	B27-W-(70-74)	Lab Duplicate	03/23/2016 12:55	16C1177	16C1177-08
Groundwater	B27-W-(65-69)		03/23/2016 12:40	16C1177	16C1177-09
Groundwater	B27-W-(59-63)		03/23/2016 12:55	16C1177	16C1177-10
Groundwater	B27-W-(55-59)		03/23/2016 13:05	16C1177	16C1177-11
Groundwater	B27-W-(51-55)		03/23/2016 13:18	16C1177	16C1177-12
Groundwater	B27-W-(42-46)		03/23/2016 13:30	16C1177	16C1177-13
Water QC	EB-3	Equipment Blank	03/23/2016 13:35	16C1177	16C1177-14
Groundwater	B42-W-(73-77)		03/23/2016 15:03	16C1177	16C1177-15
Groundwater	B42-W-(69-73)		03/23/2016 15:15	16C1177	16C1177-16
Groundwater	B42-W-(65-69)		03/23/2016 15:25	16C1177	16C1177-17
Groundwater	B42-W-(58-62)		03/23/2016 15:40	16C1177	16C1177-18
Groundwater	B42-W-(54-58)	Lab Duplicate	03/23/2016 15:43	16C1177	16C1177-19
Groundwater	B42-W-(45-49)		03/23/2016 15:55	16C1177	16C1177-20
Groundwater	B42-W-(41-45)		03/23/2016 16:03	16C1177	16C1177-21
Water QC	EB-4	Equipment Blank	03/23/2016 16:10	16C1177	16C1177-22
Groundwater	B41-W-(76-80)	MS	03/23/2016 17:10	16C1177	16C1177-23
Groundwater	B41-W-(53-57)		03/23/2016 17:23	16C1177	16C1177-24
Groundwater	B41-W-(48-52)		03/23/2016 17:30	16C1177	16C1177-25
Groundwater	B41-W-(43-47)		03/23/2016 17:45	16C1177	16C1177-26
Water QC	Trip Blank-5	Trip Blank	03/22/2016 07:00	16C1177	16C1177-27
Groundwater	B45W-6670		4/20/2016 9:22	16D1374	16D1374-01
Groundwater	B45W-6266		4/20/2016 9:33	16D1374	16D1374-02
Groundwater	B45W-5862		4/20/2016 9:46	16D1374	16D1374-03
Groundwater	B45W-5357		4/20/2016 9:57	16D1374	16D1374-04
Groundwater	B45W-4852	MS/MSD	4/20/2016 10:08	16D1374	16D1374-05
Groundwater	B45W-4347		4/20/2016 10:26	16D1374	16D1374-06

Table of Samples Analyzed
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March, and April 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	MDH Work Order	MDH ID
Groundwater	DUPW-7	FD of B45W-4347	4/20/2016 10:35	16D1374	16D1374-07
Groundwater	B33W-6670		4/20/2016 11:57	16D1374	16D1374-08
Groundwater	B33W-6266		4/20/2016 12:10	16D1374	16D1374-09
Groundwater	B33W-5862		4/20/2016 12:25	16D1374	16D1374-10
Groundwater	B33W-5357		4/20/2016 12:33	16D1374	16D1374-11
Groundwater	B33W-4852	MS/MSD	4/20/2016 12:45	16D1374	16D1374-12
Groundwater	B33W-4347		4/20/2016 13:00	16D1374	16D1374-13
Groundwater	DUPW-8	FD of B33W-4347	4/20/2016 13:10	16D1374	16D1374-14
Groundwater	B44W-6670		4/20/2016 14:30	16D1374	16D1374-15
Groundwater	B44W-6266		4/20/2016 14:41	16D1374	16D1374-16
Groundwater	B44W-5862		4/20/2016 14:50	16D1374	16D1374-17
Groundwater	B44W-5357		4/20/2016 15:00	16D1374	16D1374-18
Groundwater	B44W-4852	MS/MSD	4/20/2016 15:06	16D1374	16D1374-19
Groundwater	B44W-4347		4/20/2016 15:20	16D1374	16D1374-20
Groundwater	DUPW-9	FD of B44W-4347	4/20/2016 15:35	16D1374	16D1374-21
Water QC	TRIP BLANK	Trip Blank	4/20/2016 7:00	16D1374	16D1374-22

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Project Name: Solvent Plume Investigations St. Louis Park, Minnesota	Laboratory: MDH Public Health Laboratory, of St Paul, MN (MDH)
Project Reference: Minnesota Pollution Control Agency	Sample Matrix: Groundwater and Water QC samples
AECOM Project: 60482513	Sample Start Date: 2/25/16
Validated By/Date Validated: Lisa Smith 5/24/16 (completed)	Sample End Date: 4/20/16

Samples Analyzed: see Table of Samples Analyzed, Groundwater Sampling, St. Louis Park, Minnesota Groundwater and Water QC Samples, February, March and April 2016 Sampling Event (pages 3-6).

Parameters Reviewed:

- VOCs by SW-846 GC/MS method 8260B.

Laboratory Work Orders (WOs):

MDH: 16B1468, 16C0268, 16C0573, 16C0973, 16C1177, and 16D1374.

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of MS/MSD pairs, or laboratory duplicates. Evaluation of field and laboratory duplicates for precision was performed using the calculated relative percent difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Laboratory RPD precision measurements were compared to limits included in the laboratory reports. For field duplicates, a criteria of <25% RPD or ± the RL was used.

Although some data required qualification based on field duplicate RPDs, precision is acceptable based on the data submitted, since a majority of the data are unqualified and no data are rejected. Precision measurements are reviewed in items 17 and 21.

Accuracy:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Field accuracy, a measure of the sampling bias, was determined by reviewing equipment rinse blank results for evidence of contamination stemming from field/sampling contamination. Laboratory accuracy is a measure of the system bias, and was measured by evaluating LCS, MS, MSD, and organic system monitoring compound (surrogate) percent recoveries (%Rs).

LCS %Rs demonstrated overall analytical performance. MS, MSD %Rs provided information on sample matrix interferences. System monitoring compound or surrogate recoveries measured system performance and efficiency during organic analysis. %Rs were compared to QC limits included in the data packages. Although some data require qualification, overall accuracy is acceptable based on the data submitted, since a majority of the data are unqualified and no data are rejected. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.

Method Compliance:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, and laboratory blanks against method specified requirements. Although some data require qualification, overall method compliance is acceptable, based on the data submitted, since a majority of the data are unqualified and no data points are rejected based on these measurements. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.

Completeness:	**X**	Acceptable		Unacceptable	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits and, laboratory case narratives. Completeness also included 100% review of the laboratory sample data results.

All reported data are usable, some with qualification. Overall target analyte completeness of the dataset is 100% and is acceptable.

VALIDATION CRITERIA CHECK

Data validation qualifiers assigned in this review were:

J Estimated concentration

UJ Estimated reporting limit

The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary.

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).

1. Did the laboratory identify any non-conformances related to the analytical results?	**X**	Yes		No	LS	Initials

Laboratory non-conformances were identified using laboratory qualifiers. These qualifiers were used to identify samples received without preservation, samples received with headspace, dilutions, second-source calibration verification exceedances, MS/MSD exceedances, LCS exceedances, and results exceeding the calibration curve.

Non-conformances specific to data packages are listed below.

16C0268: The field ID for three samples did not match the IDs listed on the chain-of-custody (CoC). The correct field sample IDs were provided by the field sampler.

16C0573: Sample receipt temperature > 6.0 ºC (at 6.6 ºC)

16C0973: Sample B25-W-(41-45) was not listed on the CoC. The laboratory was requested to proceed with analysis.

16D1374: Sample receipt temperature > 6.0 deg C (at 10.9 ºC)

2. Were sample Chain-of-Custody (COC) forms complete?		Yes	**X**	No	LS	Initials

Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt, except as noted in item #1. The documentation inconsistencies are considered minor.

3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	LS	Initials

Comments: All requested analyses, as designated on the supplied COC forms, were completed and reported.

4. Were samples received in good condition and at the appropriate temperature?		Yes	**X**	No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments:

Samples were received intact and in good condition with acceptable cooler temperatures of <6°C as noted on the Sample Condition Upon Receipt form, with the exceptions discussed below.

Samples in WOs 16C0573 and 16D1374 were received at temperatures > 6 °C (at 6.6 and 10.9°C, respectively). These samples were determined to be acceptable without qualifications since they were received on ice and all of the samples for WO 16D1374 (10.9°C) were collected the same day they were received at the laboratory, and many of the samples for 16D1374 (6.6°C) were received at the laboratory the same day they were collected. These samples most likely had inadequate time to reach the < 6 °C requirement.

In addition, laboratory qualifiers indicated that some samples were received with inadequate preservation. These samples were reviewed using the 7-day holding time for unpreserved samples, and qualifications are discussed in detail under holding times (item #8).

The laboratory qualifiers indicated 18 samples were analyzed from vials with unacceptable headspace. The laboratory was requested to review the headspace issue, and indicated that the laboratory headspace qualifier was used if the analysis was perform from a vial with unacceptable headspace. A headspace free vial was not available for these analyses and the laboratory indicated that "For several samples the non-headspace vial was analyzed but a smaller dilution was required so a second vial was used. It also looks like for some, the results from the first vial were invalid so a second vial was used. It would appear in these situations that 2 of the 3 vials contained headspace; this is the scenario for several samples in 16C0576. In looking at 16D1374, a dilution was required due to a high concentration and it is possible the other two vials contained headspace therefore the re-shots have the headspace qualifier." **Results reported from vials with unacceptable headspace were qualified as estimated (UJ and J).** The headspace and preservation issue may be due to the sample matrix and effervescing.

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).

5. Were the reported analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	LS	Initials

Comments: The reported methods are in compliance with the parameters requested on the COCs and the SAP.

6. Were detection limits in accordance with WP/QAPP, permit, or method?		Yes	**X**	No	LS	Initials

Comments: Dilutions were required due to high sample concentration and sample matrix. 24 samples were reported from multiple dilutions when analytes with high concentrations were present. This allowed lower reporting limits for not detected results, while analyzing compounds within the instrument calibration range for high concentration analytes.

For others samples (80 samples), only the diluted run was reported and reporting limits for non-detects were elevated accordingly. Reporting limits achieved should be reviewed to assure that data quality objectives can be met.

For samples listed below, the results were nondetect for all VOCs; however, dilutions were performed. The laboratory indicated the dilutions were required due to sample matrix.

Sample	Dilution (calculated)
B39-W-(57-61)	5x
B39-W-(53-57)	5x
B39-W-(48-52)	5x
B38-W-(56-60)	5x
B38-W-(45-49)	5x
B37-W-(49-53)	5x
B37-W-(41-45)	5x
B39-W-(57-61)	5x

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	LS	Initials
Comments: The target analytes were those specified on the COC and in the SAP.						
8. Were sample holding times met?		Yes	**X**	No	LS	Initials
Comments: The method required holding time periods for groundwater/water QC samples were as follows: - 14 days from sample collection to analysis for method 8260B analysis for preserved samples. - 7 days from sample collection to analysis for method 8260B analysis for unpreserved samples. Laboratory data qualifiers indicated that 23 samples were received with inadequate preservation. These samples were evaluated using the 7-day holding time limit for unpreserved samples, and 15 samples were analyzed 1 to 5 days over this hold time. **Sample results exceeding hold time were qualified as estimated (J/UJ) based on professtional judgement.** **Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).**						
9. Were correct concentration units reported?	**X**	Yes		No	LS	Initials
Comments: Typical concentration units were reported. Method 8260B results were reported as µg/L (ppb).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	LS	Initials
Comments: All assigned laboratory flags were reviewed and evaluated during the limited validation process. Data validation qualifiers override any assigned laboratory data flags.						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	LS	Initials
Comments: The submitted laboratory blanks were free of target analyte contamination.						
12. Were trip blank and/or equipment rinse blank samples free of target analyte contamination?	**X**	Yes		No	LS	Initials
Comments: The equipment, field, and trip blank samples were free of target analyte contamination.						
13. Were instrument calibrations within method or data validation control limits?		Yes	**X**	No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: The laboratory identified second source calibration verification (SSCV) and calibration verification exceedances using laboratory qualifiers. Exceedances identified are listed in the table below:

Batch	Analyte	Description	Associated Samples
B6C0040 B6C0076	Dichlorodifluoromethane	SSCV-high recovery	B29-W-(50-54) B29-W-(74-78) B30-W-(41-45) B30-W-(94-98) B32-W-(73-77) B32-W-(90-94) Dup-W-1 Trip Blank-1
B6C0076	Bromomethane	CCV-low recovery	B29-W-(74-78) B30-W-(94-98)
B6C0645	Bromomethane	CCV-low recovery	B42-W-(41-45) B42-W-(54-58) B42-W-(58-62) B42-W-(65-69) B42-W-(69-73) B42-W-(73-77) B43-W-(45-49) B43-W-(49-53)

Results associated with high recoveries were not detected, and did not require qualification. Results associated with low recoveries were nondetect and qualified as estimated (UJ).

The data validation qualifiers should be considered a minimum level of qualification since the specific calibration results were not provided. **Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).**

14. Were surrogate recoveries within control limits?	**X**	Yes		No	LS	Initials

Comments: Surrogate recoveries were within control limits for all project samples.

15. Were laboratory control sample recoveries within control limits?		Yes	**X**	No	LS	Initials

Comments: Reported LCS recoveries were within laboratory QC limits provided in the data packages, with the exception of bromomethane for batch B6C0076 (WO 16B1468). The laboratory reported a bromomethane recovery for batch B6C0076 of 67%, while the acceptable recovery range is 70% to 130%. **Associated bromomethane results were nondetect and qualified UJ.**

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).

16. Were matrix spike recoveries within control limits?		Yes	**X**	No	LS	Initials

Comments: Extra volume was submitted to the laboratory for MS/MSD analysis for samples B22-W-(76-80), B36-W-(58-62), and B35-W-(58-62); however, the laboratory analyzed these samples as distinct samples and they were reviewed as field triplicates and are discussed in the field duplicate section (item # 21). Matrix spikes (MSs) were analyzed on project samples at a frequency of 10%, and the MSs are identified in the Table of Samples Analyzed (pages 3-6). Recoveries were within the laboratory QC limits provided in the data package, except as noted in the table below.

Continued on next page

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

(continued)

Sample ID	Analyte	%R	Control Limits	Qualifiers/Comments
B23-W-(89-93)	1,1,2-Trichlorotrifluoroethane	**131**	70-130	None. Sample nondetect.
	cis-1,2-Dichloroethene	**172**	70-130	None. The sample concentration was greater than 4 times the spike concentration.
B29-W-(50-54)	Chloroethane	**136**	70-130	None. Sample nondetect.
B36-W-(58-62)	Bromomethane	**44**	70-130	**The bromomethane result for sample B36-W-(58-62) was nondetect and qualified UJ.**
B43-W-(73-77)	1,1,2-Trichlorotrifluoroethane	**133**	70-130	None. Sample nondetect.
B45W-4852	Chloromethane	**135**	70-130	None. Sample nondetect.
B33W-4852	1,1,2-Trichlorotrifluoroethane	121/**131**	70-130	None. Sample nondetect.
	1,1-Dichloroethene	120/**131**	70-130	
	Chloromethane	130/**134**	70-130	
	sec-Butylbenzene	121/**132**	70-130	
B44W-4852	Chloromethane	**135/133**	70-130	None. Sample nondetect.
	Tetrachloroethene	**180/164**	70-130	None. The sample concentration was greater than 4 times the spike concentration.

For organic samples, qualification as estimated (J/UJ) was limited to the spiked sample. No qualifiers were assigned for non-detected results associated with high recoveries.

Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).

17. Were duplicate RPDs within control limits?	**X**	Yes		No	LS	Initials

Comments: Laboratory duplicates (or MSDs for WO 16D1374) were analyzed on project samples at a frequency of 10% and are identified in the Table of Samples Analyzed (pages 3-6).

RPDs were within laboratory QC limits, except for the acetone RPD of 65% for the laboratory duplicate performed on sample B35-W-(58-62 MS). The acetone laboratory duplicate result was 540 ug/L and below the report limit of 2000 ug/L, and appears to be incorrectly reported, since sample results are reported to the RL (the primary result was reported as < 2000 ug/L). The laboratory duplicate results are considered acceptable since the results were within ± the reporting limit (RL).

18. Were organic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation – Organic system performance data were not supplied in analytical laboratory reports and were therefore not included in this data review.

19. Were internal standards within method criteria for GC/MS sample analyses?	NA	Yes	NA	No	LS	Initials

Comments: *Not applicable for this level of limited data validation – GC/MS Internal standard data were not supplied in analytical laboratory reports and were therefore not included in this data review.*

20. Were inorganic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation or for the methods reported.

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Eleven field duplicates were collected and analyzed for VOCs by 8260B.

RPDs were calculated for samples with detections in both the field and duplicate sample. RPDs are not applicable for results that were undetected in both samples and these results are not presented. The following RPDs were calculated:

Parameter	Sample (ug/L)	Field Duplicate (ug/L)	RPD
B29-W-(50-54)/ Dup-W-1:			
Benzene	7.4	5.8	24
cis-1,2-Dichloroethene	42	29	**37**
trans-1,2-Dichloroethene	23	20	14
Vinyl chloride	27	19	**35**
B36-W-(50-54)/DUP-W-2:			
cis-1,2-Dichloroethene	280	270	4
Tetrachloroethene	1700	1700	0
Trichloroethene (TCE)	230	230	0
B36-W-(46-50)/ DUP-W-3:			
cis-1,2-Dichloroethene	62	54	14
Tetrachloroethene	1300	1200	8
Trichloroethene (TCE)	63	54	15
B35-W-(50-54)/DUP-W-4:			
Tetrachloroethene	5900	5800	2
B35-W-(46-50)/DUP-W-5:			
Tetrachloroethene	2100	2100	0
B26-W-(48-44)/DUP-W-6:			
1,2,4-Trimethylbenzene	36	35	3
Benzene	71	69	3
Ethylbenzene	63	60	5
Naphthalene	920	910	1
o-Xylene	47	46	2
p&m-Xylene	29	28	4
B23-W-(78-82/Dup-W-7:			
Benzene	28	27	4
cis-1,2-Dichloroethene	2900	2800	4
trans-1,2-Dichloroethene	65	68	5
Vinyl chloride	230	220	4
B25-W-(54-58)/Dup-W-8:			
cis-1,2-Dichloroethene	2200	2000	10
Tetrachloroethene	4700	3300	**35**
trans-1,2-Dichloroethene	53	56	6
Trichloroethene (TCE)	4200	2900	**37**
Vinyl chloride	26	26	0
B45W-43-47/ Dup-W-7:			
1,2,4-Trimethylbenzene	280	250	11
1,3,5-Trimethylbenzene	66	63	5
cis-1,2-Dichloroethene	52	56	7
ethylbenzene	16	15	6
isopropylbenzene	15	14	7
naphthalene	18	17	6

Continued on the next page

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

(continued)

Parameter	Sample (ug/L)	Field Duplicate (ug/L)	RPD
B45W-43-47/ Dup-W-7 (continued):			
n-propylbenzene	50	44	13
o-xylene	11	11	0
p&m-xylene	77	72	7
sec-butylbenzene	5.1	<5.0	--
trans-1,2-dichloroethene	61	69	12
vinyl chloride	7.6	8.6	12
B33W-43-47/ Dup-W-8:			
cis-1,2-Dichloroethene	38	89	**80**
tetrachloroethene (PCE)	250	420	**51**
trichloroethene (TCE)	11	15	**31**
B44W-43-47/ Dup-W-9:			
cis-1,2-Dichloroethene	61	70	14
tetrachloroethene (PCE)	230	290	23
trichloroethene (TCE)	26	32	21

Three of the MS/MSDs submitted were analyzed as distinct samples. These results were evaluated as triplicate sample results in the table below:

Parameter	Sample (ug/L)	Field Duplicate (ug/L)	Field Triplicate (ug/L)	RPD
B22-W-(76-80)/ B22-W-(76-80)MS/B22-W-(76-80)MSD:				
cis-1,2-Dichloroethene	840	790	780	5
trans-1,2-Dichloroethene	44	40	40	6
Vinyl chloride	80	73	74	6
B35-W-(58-62)/ B35-W-(58-62 MS)/ B35-W-(58-62) MSD:				
cis-1,2-Dichloroethene	210	220	220	3
Tetrachloroethene	3700	3100	3300	12
B36-W-(58-62)/ B36-W-(58-62 MS)/ B36-W-(58-62 MSD):				
cis-1,2-Dichloroethene	480	550	560	10
Vinyl chloride	46	56	57	14

The control limits of 0-25% or ± RL were met with the exceptions shown in bold**. For these results, the parent and duplicate sample were qualified as estimated (J).**

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 15-16).

22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	LS	Initials
Comments: Not applicable for this level of limited data validation.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	**NA**	Yes	NA	No	LS	Initials
Not applicable, an EDD was not required.						

24. Additional Comments:

The cis-1,2-dichloroethene result for sample B23-W-(89-93) exceeded the instrument calibration range, and was qualified as estimated (J).

Table of Qualified Analytical Results
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March and April 2016 Sampling Event

Sample ID	Lab ID	Method	Analyte	Qualifier	Reason
B21-W-(44-48)	16C0268-12	SW8260B	All VOCs	J/UJ	h
B21-W-(86-90)	16C0268-09	SW8260B	All VOCs	J/UJ	h
B22-W-(86-90)	16C0268-05	SW8260B	All VOCs	J/UJ	h
B23-W-(89-93)	16C0973-06	SW8260B	cis-1,2-Dichloroethene	J	q
B24-W-(47-51)	16C0973-05	SW8260B	All VOCs	J/UJ	ab
B24-W-(51-55)	16C0973-04	SW8260B	All VOCs	J/UJ	ab
B25-W-(41-45)	16C0973-31	SW8260B	All VOCs	J/UJ	ab,h
B25-W-(54-58)	16C0973-18	SW8260B	All VOCs	J/UJ	h
B25-W-(54-58)	16C0973-18	SW8260B	cis-1,2-Dichloroethene	J	ab
B25-W-(54-58)	16C0973-18	SW8260B	Tetrachloroethene	J	ab,fd
B25-W-(54-58)	16C0973-18	SW8260B	Trichloroethene (TCE)	J	ab,fd
B26-W-(48-44)	16C0573-31	SW8260B	All VOCs	J/UJ	ab
B26-W-(70-74)	16C0573-27	SW8260B	All VOCs	J/UJ	ab
B28-W-(61-65)	16C0573-23	SW8260B	All VOCs	J/UJ	ab
B28-W-(77-81)	16C0573-21	SW8260B	All VOCs	J/UJ	h
B29-W-(50-54)	16B1468-04	SW8260B	cis-1,2-Dichloroethene	J	fd
B29-W-(50-54)	16B1468-04	SW8260B	Vinyl Chloride	J	fd
B29-W-(74-78)	16B1468-03	SW8260B	All VOCs	J/UJ	ab
B29-W-(74-78)	16B1468-03	SW8260B	Bromomethane	UJ	c,l
B30-W-(41-45)	16B1468-07	SW8260B	Tetrachloroethene	J	ab
B30-W-(94-98)	16B1468-06	SW8260B	Bromomethane	UJ	c,l
B31-W-(80-84)	16C0268-01	SW8260B	All VOCs	J/UJ	h
B33W-43-47	16D1374-13	SW8260B	cis-1,2-Dichloroethene	J	fd
B33W-43-47	16D1374-13	SW8260B	Tetrachloroethene	J	fd
B33W-43-47	16D1374-13	SW8260B	Trichloroethene (TCE)	J	fd
B33W-6266	16D1374-09	SW8260B	All VOCs	J/UJ	h
B33W-6670	16D1374-08	SW8260B	All VOCs	J/UJ	h
B35-W-(62-66)	16C0573-12	SW8260B	All VOCs	J/UJ	ab
B36-W-(54-58)	16C0573-06	SW8260B	All VOCs	J/UJ	ab
B36-W-(58-62)	16C0573-03	SW8260B	All VOCs	J/UJ	ab
B36-W-(58-62)	16C0573-03	SW8260B	Bromomethane	UJ	ms
B36-W-(62-66)	16C0573-02	SW8260B	All VOCs	J/UJ	ab
B42-W-(41-45)	16C1177-21	SW8260B	Bromomethane	UJ	c
B42-W-(54-58)	16C1177-19	SW8260B	Bromomethane	UJ	c
B42-W-(58-62)	16C1177-18	SW8260B	Bromomethane	UJ	c
B42-W-(65-69)	16C1177-17	SW8260B	Bromomethane	UJ	c
B42-W-(69-73)	16C1177-16	SW8260B	Bromomethane	UJ	c
B42-W-(73-77)	16C1177-15	SW8260B	Bromomethane	UJ	c

Table of Qualified Analytical Results
Groundwater Sampling
St. Louis Park, Minnesota

Groundwater and Water QC Samples
February, March and April 2016 Sampling Event

Sample ID	Lab ID	Method	Analyte	Qualifier	Reason
B43-W-(45-49)	16C1177-06	SW8260B	All VOCs	J/UJ	h
B43-W-(45-49)	16C1177-06	SW8260B	Bromomethane	UJ	c
B43-W-(49-53)	16C1177-05	SW8260B	Bromomethane	UJ	c
B43-W-(68-72)	16C1177-02	SW8260B	All VOCs	J/UJ	ab
B44W-5862	16D1374-17	SW8260B	All VOCs	J/UJ	h
B45W-5862	16D1374-03	SW8260B	All VOCs	J/UJ	h
Dup-W-1	16B1468-05	SW8260B	All VOCs	J/UJ	ab
Dup-W-1	16B1468-05	SW8260B	cis-1,2-Dichloroethene	J	fd
Dup-W-1	16B1468-05	SW8260B	Vinyl Chloride	J	fd
DUP-W-2	16C0573-09	SW8260B	All VOCs	J/UJ	ab
Dup-W-7	16C0973-20	SW8260B	cis-1,2-Dichloroethene	J	ab
DUPW-8	16D1374-14	SW8260B	All VOCs	J/UJ	h
DUPW-8	16D1374-14	SW8260B	cis-1,2-Dichloroethene	J	fd
DUPW-8	16D1374-14	SW8260B	Tetrachloroethene	J	fd
DUPW-8	16D1374-14	SW8260B	Trichloroethene (TCE)	J	fd
Dup-W-8	16C0973-21	SW8260B	All VOCs	J/UJ	h
Dup-W-8	16C0973-21	SW8260B	cis-1,2-Dichloroethene	J	ab
Dup-W-8	16C0973-21	SW8260B	Tetrachloroethene	J	ab,fd
Dup-W-8	16C0973-21	SW8260B	Trichloroethene (TCE)	J	ab,fd
DUPW-9	16D1374-21	SW8260B	All VOCs	J/UJ	h

Flags:
J – assigned to detected results, an estimated value
UJ – assigned to not-detected results, estimated reporting limit

Reason Codes:
ab – air bubble present at an unacceptable size
c – calibration issue
fd – field duplicate imprecision
l – lcs recovery
h – hold time exceedance
ld – laboratory duplicate precision
ms – matrix spike recovery
q – quantitation issue

Environment

Submitted to:
Minnesota Pollution Control Agency
St. Paul, MN

Submitted by:
AECOM
Minneapolis, MN
60482513
May 2016

May 26, 2016

Limited Data Validation Report

Vapor Samples
Solvent Plume Investigations
St. Louis Park, MN

Pace Analytical Services, Inc. Data
February and April 2016 Sampling Events

Prepared By Lisa Smith
Environmental Chemist

Overview

The samples analyzed for the soil vapor sampling event at the St. Louis Park, Minnesota site on February 8 through 19, and April 1 through 12, 2016 are listed in the Table of Samples Analyzed (page 2). Limited data validation was performed on a total of 35 distinct soil vapor samples.

Samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota (Pace). All analyses were performed at Pace.

The reviewed analyses were:

- VOCs by GC/MS method TO-15.

The Analytical Limited Data Validation Checklist is presented as pages 3-7. Review criteria from the following documents were considered when evaluating the submitted data:

- *USEPA Hazardous Waste Support Branch Validating Air Samples Volatile Organic Analysis of Air Samples in Canister by Method TO-15*, June 2014,
- *Sampling and Analysis Plan (SAP),* Solvent Plume Investigations St. Louis Park, MN, January 2016,
- Control limits provided in the analytical reports.

The following data components were reviewed during the limited data validation procedure:

Submitted Deliverables
Case Narratives (including laboratory flags)
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, dilution factors
Holding times
Method blank results
Canister Certification Samples
Laboratory control spike (LCS) results
Laboratory duplicate results

Data Validation Qualifiers Assigned During this Review

J Estimated concentration

UJ Estimated reporting limit

Assigned qualifiers are detailed in the Analytical Limited Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (pages 8-9).

Overall Data Assessment

The data are suitable for their intended use with the qualifications and clarifications noted. Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable.

Table of Samples Analyzed
Soil Vapor Samples
St. Louis Park, Minnesota

Vapor Samples
February and April 2016 Sampling Event

Matrix	Sample ID	Quality Control	Sample Date and Time	Pace-MN SDG	Pace-MN ID
Air	SSV-1		2/8/16 10:30	10337978	10337978001
Air	SSV-2		2/8/16 10:31	10337978	10337978002
Air	SSV-3		2/8/16 10:35	10337978	10337978003
Air	SSV-4		2/8/16 10:32	10337978	10337978004
Air	SSV-5		2/8/16 10:49	10337978	10337978005
Air	IA-1		2/9/16 10:18	10337978	10337978006
Air	IA-2	Lab Duplicate	2/9/16 10:23	10337978	10337978007
Air	IA-3		2/9/16 10:23	10337978	10337978008
Air	IA-4		2/9/16 10:30	10337978	10337978009
Air	AA-1		2/9/16 10:18	10337978	10337978010
Air	R-SSV-1		2/19/16 14:25	10339307	10339307001
Air	R-SSV-2		2/19/16 14:13	10339307	10339307002
Air	R-SSV-3		2/19/16 14:19	10339307	10339307003
Air	R-SSV-4		2/19/16 14:17	10339307	10339307004
Air	R-SSV-5		2/19/16 14:15	10339307	10339307005
Air	B-SSV-1		4/1/16 9:51	10343713	10343713001
Air	B-SSV-2		4/1/16 9:49	10343713	10343713002
Air	SSV-29		4/1/16 15:09	10343713	10343713003
Air	SSV-30		4/1/16 14:19	10343713	10343713004
Air	SSV-31		4/1/16 14:20	10343713	10343713005
Air	SSV-32		4/1/16 15:36	10343713	10343713006
Air	SSV-33		4/1/16 15:40	10343713	10343713007
Air	SSV-34		4/1/16 14:20	10343713	10343713008
Air	SSV-35		4/1/16 14:22	10343713	10343713009
Air	SSV-36		4/1/16 15:10	10343713	10343713010
Air	M-SSV-1		4/11/16 9:31	10344419	10344419001
Air	M-SSV-2		4/11/16 9:32	10344419	10344419002
Air	M-SSV-3		4/11/16 9:33	10344419	10344419003
Air	M-SSV-4		4/11/16 9:34	10344419	10344419004
Air	M-SSV-5		4/11/16 9:35	10344419	10344419005
Air	M-IA-1	Lab Duplicate	4/12/16 9:49	10344419	10344419006
Air	M-IA-2		4/12/16 9:51	10344419	10344419007
Air	M-IA-3		4/12/16 9:52	10344419	10344419008
Air	M-IA-4		4/12/16 9:45	10344419	10344419009
Air	AA-1		4/12/16 9:56	10344419	10344419010

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Project Name: Solvent Plume Investigations St. Louis Park, Minnesota	Laboratory: Pace Analytical Services, Inc. of Minneapolis, MN (Pace)
Project Reference: Minnesota Pollution Control Agency	Sample Matrix: Soil Vapor samples
AECOM Project: 60482513	Sample Start Date: 2/8/16
Validated By/Date Validated: Lisa Smith 5/26/16 (completed)	Sample End Date: 4/12/16

Samples Analyzed: see Table of Samples Analyzed, Soil Vapor Samples, St. Louis Park, Minnesota, Vapor Samples, February and April 2016 Sampling Event (page 2).

Parameters Reviewed:

- VOCs by GC/MS method TO-15.

Laboratory Project IDs (SDGs):

Pace: 10337978, 10339307, 10343713 and 10344419.

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Precision is the measure of variability of individual sample measurements. Laboratory precision was determined by examination of duplicates. Evaluation of laboratory duplicates for precision was performed using the calculated relative percent difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Laboratory RPD precision measurements were compared to limits included in the laboratory reports.

Although some data required qualification based on laboratory duplicate RPDs, precision is acceptable based on the data submitted, since the majority of the data are unqualified and no data are rejected. Precision measurements are reviewed in items 17 and 21.

Accuracy:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: Laboratory accuracy is a measure of the system bias, and was measured by evaluating LCS percent recoveries (%Rs).

LCS %Rs demonstrated overall analytical performance. %Rs were compared to QC limits included in the data packages.

No data required qualification based on recoveries, and overall accuracy is acceptable based on the data submitted. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.

Method Compliance:	**X**	Acceptable		Unacceptable	LS	Initials

Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, laboratory blanks, and other method specific requirements such as calibrations and internal standards (as noted in the case narratives) against method specified requirements. Although some data require qualification based on calibration and internal standard exceedances, overall method compliance is acceptable, based on the data submitted, since a majority of the data are unqualified and no data points are rejected based on these measurements. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.

Completeness:	**X**	Acceptable		Unacceptable	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits and, laboratory case narratives. Completeness also included 100% review of the laboratory sample data results.

All reported data are usable, some with qualification. Overall target analyte completeness of the dataset is 100% and is acceptable.

VALIDATION CRITERIA CHECK

Data validation qualifiers assigned in this review were:

J Estimated concentration

UJ Estimated reporting limit

The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary.

Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 8-9).

1. Did the laboratory identify any non-conformances related to the analytical results?	**X**	Yes		No	LS	Initials

Laboratory non-conformances were identified in the case narratives and using laboratory qualifiers. Non-conformances identified included second-source calibration verification exceedances (SSCV), internal standard exceedances, compounds quantitated above the instrument calibration range, and laboratory duplicate non-compliances.

2. Were sample Chain-of-Custody (COC) forms complete?	**X**	Yes		No	LS	Initials

Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.

3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	LS	Initials

Comments: All requested analyses, as designated on the supplied COC forms, were completed and reported.

4. Were samples received in good condition and at the appropriate temperature?	**X**	Yes		No	LS	Initials

Comments:

Samples were received intact and in good condition as noted on the Sample Condition Upon Receipt forms.

5. Were the reported analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	LS	Initials

Comments: The reported methods are in compliance with the parameters requested on the COCs and the SAP.

6. Were detection limits in accordance with WP/QAPP, permit, or method?		Yes	**X**	No	LS	Initials

Comments: Dilutions were required due to high sample concentration. 17 samples were reported from multiple dilutions when analytes with high concentrations were present. This allowed lower reporting limits for not detected results, while analyzing compounds within the instrument calibration range for high concentration analytes.

The methylene chloride result for sample M-IA-2 was reported as a nondetect from a 60.03x dilution analysis.

Reporting limits achieved should be reviewed to assure that data quality objectives can be met.

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	LS	Initials
Comments: The target analytes were those specified on the COC and in the SAP.						
8. Were sample holding times met?	**X**	Yes		No	LS	Initials
Comments: The method required holding time periods for soil vapor samples were as follows: - 30 days from sample collection to analysis as listed in analytical method and the approved SAP. Analytical holding times were met for all project samples and analyses.						
9. Were correct concentration units reported?	**X**	Yes		No	LS	Initials
Comments: Typical concentration units were reported. Method TO-15 results were reported as ug/m3 (ppb).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	LS	Initials
Comments: All assigned laboratory flags were reviewed and evaluated during the limited validation process. Data validation qualifiers override any assigned laboratory data flags.						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	LS	Initials
Comments: The submitted laboratory blanks and canister certification blanks were free of target analyte contamination.						
12. Were trip blank and/or equipment rinse blank samples free of target analyte contamination?	NA	Yes	NA	No	LS	Initials
Comments: Trip blanks and equipment blanks are not required for TO-15 analysis.						
13. Were instrument calibrations within method or data validation control limits?		Yes	**X**	No	LS	Initials
Comments: The second source calibration verification (SSCV) recovery for propylene did not meet acceptance criteria for batch AIR/25736. **The associated propylene results were detected values and were qualified as estimated (J).** The data validation qualifiers should be considered a minimum level of qualification since the specific calibration results were not provided. **Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 8-9).**						
14. Were surrogate recoveries within control limits?	NA	Yes	NA	No	LS	Initials
Comments: Not applicable for this analysis. See internal standards discussion (item #19).						
15. Were laboratory control sample recoveries within control limits?	**X**	Yes		No	LS	Initials
Comments: Reported LCS recoveries were within laboratory QC limits provided in the data packages.						
16. Were matrix spike recoveries within control limits?	NA	Yes	NA	No	LS	Initials
Comments: Not applicable to method TO-15 analysis.						
17. Were duplicate RPDs within control limits?		Yes	**X**	No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Two laboratory duplicates were analyzed on project samples at a frequency of 6%. The laboratory duplicates are identified in the Table of Samples Analyzed (pages 2).

RPD were within laboratory QC limits, except as noted in the table below.

Parameter	Sample (ug/m3)	Lab Duplicate (ug/m3)	RPD
IA-2:			
Chloromethane	2.4	1.2	68
Dichlorodifluoromethane	2.1	2.8	31

Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 8-9).

18. Were organic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation – Organic system performance data were not supplied in analytical laboratory reports and were therefore not included in this data review.

19. Were internal standards within method criteria for GC/MS sample analyses?		Yes	**X**	No	LS	Initials

Comments: Internal standards were within method acceptance criteria, except as noted in the table below.

Sample	Compounds	Description
B-SSV-1	2-Propanol	High internal standard recoveries
B-SSV-2	All VOCs, except 2-Propanol	Low internal standard recoveries
B-SSV-2	2-Propanol	High internal standard recoveries
R-SSV-3	All VOCs	Low internal standard recoveries
SSV-29	All VOCs	Low internal standard recoveries
SSV-30	2-Propanol	High internal standard recoveries
SSV-31	2-Propanol cis-1,2-Dichloroethene Tetrachloroethene Toluene	High internal standard recoveries
SSV-32	All VOCs	Low internal standard recoveries
SSV-33	2-Propanol Toluene	High internal standard recoveries
SSV-34	2-Propanol	High internal standard recoveries
SSV-36	2-Propanol cis-1,2-Dichloroethene Toluene Trichloroethene	High internal standard recoveries

Nondetect results associated with high recoveries were not qualified. **Detects associated with high or low recoveries were qualified as estimated (J).** The data validation qualifiers should be considered a minimum level of qualification since the specific internal standard results were not provided.

Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (Pages 8-9).

20. Were inorganic system performance criteria met?	NA	Yes	NA	No	LS	Initials

Comments: Not applicable for this level of limited data validation or for the methods reported.

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	NA	Yes	NA	No	LS	Initials

Comments: Field duplicates were not require per the SAP and were not collected.

22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	LS	Initials

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Comments: Not applicable for this level of limited data validation.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	NA	Yes	NA	No	LS	Initials
Comments: Not required.						

24. Additional Comments:

Results that exceeded the instrument calibration range were qualified as estimated (J) and are listed below.

Sample	Compounds
B-SSV-1	2-Propanol
	Tetrachloroethene
B-SSV-2	2-Propanol
	Acetone
SSV-29	2-Propanol
	Acetone
SSV-30	2-Propanol
SSV-31	2-Propanol
SSV-32	Acetone
SSV-33	2-Propanol
SSV-34	2-Propanol
SSV-35	2-Propanol
SSV-36	2-Propanol

Refer to the Table of Qualified Analytical Results for a listing of the samples and analytes qualified (Pages 8-9).

Table of Qualified Analytical Results
Soil Vapor Samples
St. Louis Park, Minnesota

Vapor Samples
February and April 2016 Sampling Event

Sample ID	Lab ID	Method	Analyte	Qualifier	Reason
B-SSV-1	10343713001	TO-15	2-Propanol	J	i,q
B-SSV-1	10343713001	TO-15	Tetrachloroethene	J	q
B-SSV-2	10343713002	TO-15	All VOCs	J/UJ	i
B-SSV-2	10343713002	TO-15	Acetone	J	q
B-SSV-2	10343713002	TO-15	2-Propanol	J	q
IA-2	10337978007	TO-15	Chloromethane	J	ld
IA-2	10337978007	TO-15	Dichlorodifluoromethane	J	ld
M-IA-1	10344419006	TO-15	Propylene	UJ	c
M-IA-3	10344419008	TO-15	Propylene	UJ	c
M-IA-4	10344419009	TO-15	Propylene	UJ	c
M-SSV-1	10344419001	TO-15	Propylene	UJ	c
M-SSV-2	10344419002	TO-15	Propylene	UJ	c
M-SSV-3	10344419003	TO-15	Propylene	UJ	c
M-SSV-4	10344419004	TO-15	Propylene	UJ	c
M-SSV-5	10344419005	TO-15	Propylene	UJ	c
R-SSV-3	10339307003	TO-15	All VOCs	J/UJ	i
SSV-29	10343713003	TO-15	All VOCs	J/UJ	i
SSV-29	10343713003	TO-15	2-Propanol	J	q
SSV-29	10343713003	TO-15	Acetone	J	q
SSV-30	10343713004	TO-15	2-Propanol	J	i,q
SSV-31	10343713005	TO-15	2-Propanol	J	i,q
SSV-31	10343713005	TO-15	cis-1,2-Dichloroethene	J	i
SSV-31	10343713005	TO-15	Tetrachloroethene	J	i
SSV-31	10343713005	TO-15	Toluene	J	i
SSV-32	10343713006	TO-15	All VOCs	J/UJ	i
SSV-32	10343713006	TO-15	Acetone	J	q
SSV-33	10343713007	TO-15	2-Propanol	J	i,q
SSV-33	10343713007	TO-15	Toluene	J	i
SSV-34	10343713008	TO-15	2-Propanol	J	i,q
SSV-35	10343713009	TO-15	2-Propanol	J	q
SSV-36	10343713010	TO-15	2-Propanol	J	i,q
SSV-36	10343713010	TO-15	cis-1,2-Dichloroethene	J	i
SSV-36	10343713010	TO-15	Toluene	J	i
SSV-36	10343713010	TO-15	Trichloroethene	J	i

Flags:
J – assigned to detected results, an estimated value
UJ – assigned to not-detected results, estimated reporting limit

Table of Qualified Analytical Results
Soil Vapor Samples
St. Louis Park, Minnesota

Vapor Samples
February and April 2016 Sampling Event

Reason Codes:
c – calibration issue
i – internal standard
ld – laboratory duplicate precision
q – quantitation issue