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**St. Louis Park Soil Vapor
Survey Results Report**

Minnesota Pollution Control Agency
St. Paul, Minnesota

STS Project 200605038

February 16, 2007





STS CONSULTANTS

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February 16, 2007

Mr. David Moore
Project Manager
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155

Re: St. Louis Park Soil Vapor Survey Results Report; STS Project 200605038

Dear Mr. Moore:

STS is pleased to present the results of the soil vapor survey conducted at St. Louis Park during November 2006. The survey was conducted to screen the shallow vadose zone for the presence of volatile organic compounds (VOCs) in selected residential areas that coincide with the extent of the documented groundwater chlorinated VOCs plume present in the area. The project scope of work was outlined in STS Proposal 200604638 that was submitted to MPCA on July 19, 2006. The work was authorized by Work Order SFST0704 issued on August 1, 2006.

If you have any questions regarding the contents of this report, or if we can be of further assistance to you, please do not hesitate to contact us at 763-315-6300.

Sincerely,

STS CONSULTANTS, LTD.

Peter A. Rzepecki, PhD Phg PG
Senior Project Scientist

Paul F. Putzier, PG
Project Manager

PAR/dn
Encs.



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1.0 INTRODUCTION

Beginning in 1995, VOC contamination was detected in the Edina Municipal Well No. 7 (ED-7). In 2000 the measured concentrations of cis-1,2-dichloroethylene and vinyl chloride started showing sharply increasing trends. By 2003, concentrations of both of these chemicals in ED-7 exceeded federal drinking water standards, or MCL. Shortly after, the well was shut down and the City of Edina requested assistance from MPCA. In July 2004, a multi-phase environmental investigation was initiated. This investigation led to discovery of a significant source area of chlorinated solvents within the boundaries of St. Louis Park (STS, 2005a, 2005b, 2005c, 2006a and 2006b). STS identified 29 facilities in that area that were and/or are still using chlorinated VOCs. An additional twenty facilities may have used such chemicals. We suspect that this list of potential sources of environmental VOC contamination is still not complete.

Environmental sampling efforts conducted to date focused exclusively on testing groundwater. The soil vapor survey was performed as an efficient method to identify which among the potential sources are indeed contributing to environmental contamination. Also, a concern was raised that when an extensive groundwater contamination is present, elevated soil gas contamination is also likely to be present. Local residents may be exposed to toxic vapors intruding into residential buildings (STS, 2006a).

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2.0 DEVELOPMENT OF THE SCOPE OF FIELD WORK, SOLICITATION FOR BIDS

The intended purpose of the soil vapor survey was to screen for VOC vapors that could be present above the water table within the residential areas and to check if the detected concentrations are above the Soil Gas Action Levels designed to protect human health from harmful exposure. Another purpose of the survey was to help identify the sources of chlorinated VOC contamination. The presence of VOCs in soil gas was suspected because the most significant VOC contaminants detected in drift wells (benzene, toluene, vinyl chloride, cis-1,2-dichloroethene, trichloroethene and tetrachloroethene) have a potential to volatilize.

The soil vapor sampling program was designed following the Vapor Intrusion Assessments Performed during the Site Investigation – Guidance Document 4-01a, Petroleum Remediation Program, Minnesota Pollution Control Agency (MPCA, April 2005).

STS developed a scope of work, Sampling and Analysis Plan and Quality Assurance Project Plan specifying sampling methodology, sampling locations, sampling technology, sampling depths, and field monitoring and laboratory methods to be used during this screening survey. Next, we proceeded with a bidding process to select a subcontractor for direct push work.

Twenty-two locations were selected based on the results of other studies reported in two STS reports (2006a and 2006b). The sampling probes were to be pushed to 8 feet below ground surface and soil gas samples collected from a minimum of 2 feet above the water table.

The scope of work outlined a methodology to be applied during the survey. All equipment was to be utilized in conformance with manufacturer's recommendations. Literature published by Geoprobe Systems Inc. was incorporated in this specification by reference. STS required the use of "post-run tubing" (PRT) soil vapor sampling equipment for this project. The subcontractor was to supply and maintain sufficient PRT equipment so that the investigation scope could be completed.

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The scope of work specified that the subcontractor shall advance the direct-push PRT sampler to the target depth, and extend the expendable point. STS would provide a 1/4 inch I.D. sample tubing, to be used with subcontractor's PRT adaptor. Once the equipment is properly placed, STS would purge the sample line and collect a sample. The subcontractor was responsible for decontamination of the sampling train prior to use, and between sample locations. It was specified that quality assurance measures to be conducted by STS may include collection of an equipment blank, using subcontractor's equipment for collection of an air sample drawn through the sample train, and use of a source of tracer vapors during exploration. These tracers (if used) would be introduced to the ground surface near the direct-push drive rod.

STS developed the request for proposal, and administered the bidding process. Three contractors submitted proposals: Matrix Environmental, Thien Well Co. and Northeast Technical Services (NTS). All proposing contractors were well qualified and after checking references, STS recommended that MPCA select NTS, the lowest bidder. The selected contractor arranged with the City of St. Louis Park for necessary permits to conduct the direct push work along the street right-of-way corridors. NTS also obtained the necessary utility clearances.

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3.0 FIELD WORK

The direct push work was conducted on November 16 and 17, 2006. Soil gas samples were collected from 22 locations shown on Figure 1 and Table 2. Most of the locations are as outlined in STS Proposal 200604638. Some probes had to be completed at locations different from planned due to the presence of utilities. In total, 26 samples were collected using mini-summa canisters – 22 basic samples, three duplicate samples and one equipment blank sample.

The subcontractor advanced the direct-push PRT sampler to the target depth (8 feet below ground surface), and extended the expendable point at each sampling location. The subcontractor provided 1/4 inch I.D. sample tubing and the PRT adaptor and conducted decontamination of the sampling train prior to use, and between sample locations. Quality assurance measures employed by STS included collection of an equipment blank, using the subcontractor's equipment for collection of an air sample drawn through the sample train.

STS purged the line prior to sample collection following installation of a sampling port at a designated depth, 8 feet below ground surface. The purge device used a multi-gas detector (e.g., Landtech GEM 500) that has an integral, calibrated flow sample pump. This instrument has a steady-flow pump that allows for predictable sample line purging. The unit is allowed to run for the time required to purge the sample line. The instrument sensor readings were observed, and the sample line purging was considered to be confirmed when the readings appeared to stabilize. The multi-gas monitor collected measurements of subsurface gas constituents including oxygen, carbon dioxide, and methane which are useful in interpreting sample results and evaluating subsurface air flux. The results of in-field monitoring are presented in Table 1.

Information pertaining to the soil vapor probe locations is presented in Table 2. Photos included in Appendix A illustrate the sampling set-up described above.

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4.0 RESULTS OF SOIL VAPOR SURVEY

The soil gas samples were delivered to Pace Laboratories for VOC analysis using the Method TO-15 and other methods as defined by the EPA in EPA/625/R-96/0101b dated January 1999 or updates. The analysis was conducted for all the VOCs included on the Minnesota Soil Gas List. The results of the analysis are presented in Table 3. Only detected concentrations are listed in the table. In total, 35 VOCs were detected in the samples.

The detected levels were compared to Residential Intrusion Screening Values – June 2006 Version provided to STS by Dr. Laura Solem, the MPCA Toxicologist. Where no value was provided for a given VOC, Soil Gas Action Levels were used as defined in Appendix A of the MPCA guidance document (MPCA, April 2005). These criteria are referred to as Screening Values and are listed in column 4 of Table 4.3.

Ten VOCs (benzene, bromodichloromethane, carbon tetrachloride, chloroform, 1,2-dibromoethane, Freon 12, 1,1,2,2-tetrachloroethane, PCE, TCE and 1,2,4-trimethylbenzene) were detected at concentrations exceeding Screening Values at one or more locations (see Table 2, columns 11 through 36). These exceedances are marked as bold faced values.

Among the VOCs listed in Table 3, several detects are questionable. Chloroform may represent a laboratory contaminant. Carbon tetrachloride, 1,2-dibromoethane and 1,1,2,2-tetrachloroethane were detected in only one sample – duplicate sample for SVP-17. Bromodichloroethane was detected in only two samples – SVP-18 and duplicate SVP-17.

Six VOCs (benzene, 1,2-dibromoethane, Freon 12, 1,1,2,2-tetrachloroethane, PCE, and TCE) were detected at concentrations ten times or more the Screening Values at several sampling points.

The laboratory data report is included in Appendix B.

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Data validation analysis raised some concern about the quality of the laboratory results:

- Holding time for samples in the summa canister at ambient temperature for the EPA Method TO-15 is 14 days. The samples were collected on November 16 and 17 and were analyzed on December 6 to 8, 2006. Thus, the samples were held for 19 to 22 days. Exceeding holding time may result in reduction of the VOC concentrations present in the sample. Another possible effect is production of the new VOCs - degradation products of other VOCs. However, this soil vapor survey was the first screening study to establish if VOC contamination is present in the area. Since significant contamination was detected at all sampling points and a follow-up study is needed, exceeding holding times may not be as significant as it would be under other circumstances.
- Another concern is that the results for the equipment blank sample (see Table 3, column 36) collected as a first soil gas sample show several VOC detects. These detects may signify unsatisfactory decontamination procedures. However, except for benzene, the most important contaminants identified in this study, PCE, TCE and 1,2,4-trimethylbenzene, were not detected in the equipment blank sample. The benzene detection is a concern. Detection of this VOC in the samples was not caused by a running truck engine because the engine was turned off during sampling.
- Finally, the results for SVP-17 and its duplicate are not consistent showing significant differences. For instance, six VOC detects that are reported in the duplicate sample were not detected in any other sample. This might be a result of the summa canisters being contaminated prior to delivery to the field or the result of cross-contamination in the laboratory. Other explanations are also possible.

The Data Validation Report is presented in Appendix C.

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5.0 DISCUSSION

Four VOCs were consistently detected in the collected soil gas samples above the Screening Values: benzene, PCE, TCE and 1,2,4-trimethylbenzene. All these chemicals are also present in the drift aquifer contaminant plume extending below the vapor surveyed area (STS, 2006b).

Figures 2 and 3 illustrate that VOCs were detected at all sampled locations. At most locations they were detected at concentrations above the Screening Values. At several locations concentrations exceeded the Screening Values by ten to over one thousand times. Most of the sampling locations are within the residential areas - those within the residential areas are all less than 100 feet away from private homes.

STS recommends that the soil gas survey be expanded to:

- delineate the extent and magnitude of the soil gas cloud; and
- identify general locations of potential sources of contamination.

It is reasonable to expect that the lateral extent of this gas cloud may coincide with the documented drift aquifer's VOC plume. As Figures 1, 2 and 3 illustrate, the eastern extent of groundwater plume is not certain – this is due to a limited number of available monitoring wells in that direction. The expanded, Phase II, soil gas survey should include locations designed as a grid along the St. Louis Park streets, throughout the entire area of the delineated drift groundwater VOC plume in residential areas. Probing should be extended some distance to the east beyond the marked limits of the groundwater VOC plume. This is because most of the drift wells used to delineate the VOC plume are screened within a deep drift. Because of a complex stratigraphy of the quaternary deposits in this area, the extent of a shallow and deeper groundwater contamination may significantly differ from each other.

We propose application of an alternate technology to conduct the expanded soil gas survey. Instead of using a direct push technology and sampling with summa canisters (as in the initial phase of the survey described in this report), Gore-Sorber passive

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diffusional samplers could be deployed. The samplers would be placed for one hour in 4 to 5 feet deep holes (with the bottom below the frost line) dug using a slam bar, power auger or other hand-operated method. Each sampler would be retrieved after approximately one hour in the ground and sent for laboratory analysis. This technology has been demonstrated to be effective in screening contaminated areas and would be considerably less expensive, compared to other options. This lower cost would allow obtaining improved survey coverage and thus, a better representation of the contaminant extent. In the initial phase of the survey, a small number of sampling locations (coinciding with the locations sampled during the Phase I survey described in this report) would be selected for Gore-Sorber sampling conducted from 4 to 5 feet depth and for direct-push mini-summa sampling conducted from a depth of 8 feet. This data would allow comparison of the concentrations measured using the two different technologies and collecting samples from different sampling depths (8 feet vs. 4 feet).

A map of outstanding utility structures present in the area should be developed to guide the location of soil gas sampling points. Underground utilities may present pathways for vapor contaminants expanding beyond groundwater plume.

All the sampled locations and features of interest should be geo-referenced and stored in a geo-database.

STS recommends that the review of the Hennepin County Hazardous Waste Generators Database which was initiated as part of the "St Louis Park W437 Chlorinated Solvent Source Investigation" (STS, 2006a) be continued. Limited budget of that previous project did not allow a completion of that review. Also, a reverse phone and address search could be conducted (<http://www.whitepages.com/9901/>) to trace the businesses that used chlorinated solvents in the past but do not occupy their original locations.

STS recommends that once the survey of the potential contamination sources is finished, soil gas survey is completed and contaminant gas clouds delineated, the areas of detected high concentrations, "hot-spots", be subject to a more detailed survey focused on characterization of source areas. That would involve a sensing survey with the use of Membrane Interface Probe (MIP), Laser Induced Fluorescence (LIF) and installation of

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small-diameter monitoring wells completed with the use of a direct-push well technology. The MIP survey would be used to explore the vertical and lateral extent of high residual and dissolved VOC contamination. The LIF investigation would be used to detect petroleum hydrocarbons or DNAPL in the soil. LIF technology partially replaces the slower, more costly traditional approach, in which subsurface contaminant plumes are characterized using a drilling rig to install standard monitoring wells and collect soil and groundwater samples that are sent to a laboratory for analysis. The LIF sensor is attached to a probe that is pushed into the ground with a truck-mounted hydraulic system (a cone penetrometer) to make real-time chemical measurements of contaminants, and detect the presence of DNAPL.

Once the hot-spots and residual sources of contamination underground have been identified, a direct push well technology could be employed to install long-term monitoring wells. There is a growing body of documentation that this technology can be effectively used to produce a quality data while providing a better coverage, given a fixed budget, because of a significantly reduced cost per well installation (ITRC, 2006). Preliminary review of the Minnesota Rules, Chapter 4725, indicates that such wells could be installed in accordance with (and without violation of) the Rules.

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6.0 RECOMMENDATIONS

In summary, the scope of the proposed work includes the following:

- Conduct expanded soil gas survey using Gore-Sorber passive diffusional samplers technology
- Construction of a map of outstanding utility structures present in the area
- Development of a database with geo-referenced sampled locations and other features of interest to this project
- Complete the review of the Hennepin County Hazardous Waste Generators Database
- Conduct a reverse phone and address search to trace the local businesses that used chlorinated solvents in the past
- Conduct direct sensing survey with the use of Membrane Interface Probe (MIP) around the identified most contaminated areas
- Conduct Laser Induced Florescence (LIF) survey focused on the identified most contaminated areas
- Install and sample small diameter, direct-push wells in the key areas identified by soil gas survey and direct sensing surveys
- While installing the wells, collect soil samples for chemical analysis
- Periodically collect groundwater samples from small diameter, direct-push wells installed as part of this proposed scope of work and from other standard monitoring wells existing in the area, for chemical analysis. Initial round of sampling would involve collection of standard groundwater samples (splitting samples collected periodically by ENSR as part of the Reilly Tar Site PAH monitoring program) and Gore-Sorber samplers. During the following sampling events, only Gore-Sorber samplers would be used.

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7.0 REFERENCES

ITRC, 2006. The Use of Direct Push Well Technology for Long-term Environmental Monitoring in Groundwater Investigations – Technology and Regulatory Guidance. Interstate Technology & Regulatory Council – Sampling, Characterization and Monitoring Team, March 2006.

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USEPA, November 29, 2002. Draft Guidance For Evaluating the Vapor Intrusion to Indoor Air Pathway From Groundwater and Soils (Subsurface Vapor Intrusion Guidance). Federal Register: November 29, 2002 (Volume 67, Number 230).

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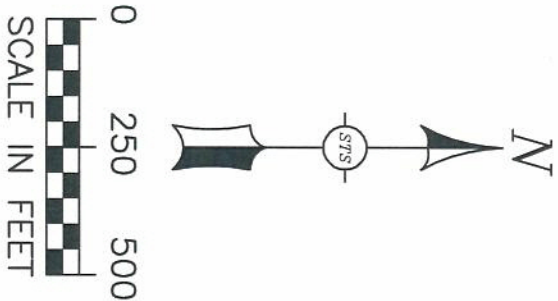
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- LEGEND**
- ESTIMATED EXTENT OF VOC PLUME IN DEEP DRIFT AQUIFER.
 - SOIL VAPOR PROBE LOCATION
 - POTENTIAL SOURCE OF CHLORINATED VOCs



NOTE: BASE MAP PROVIDED BY MARKHURD AERIAL PHOTOGRAPH DATED APRIL 04, 2000.

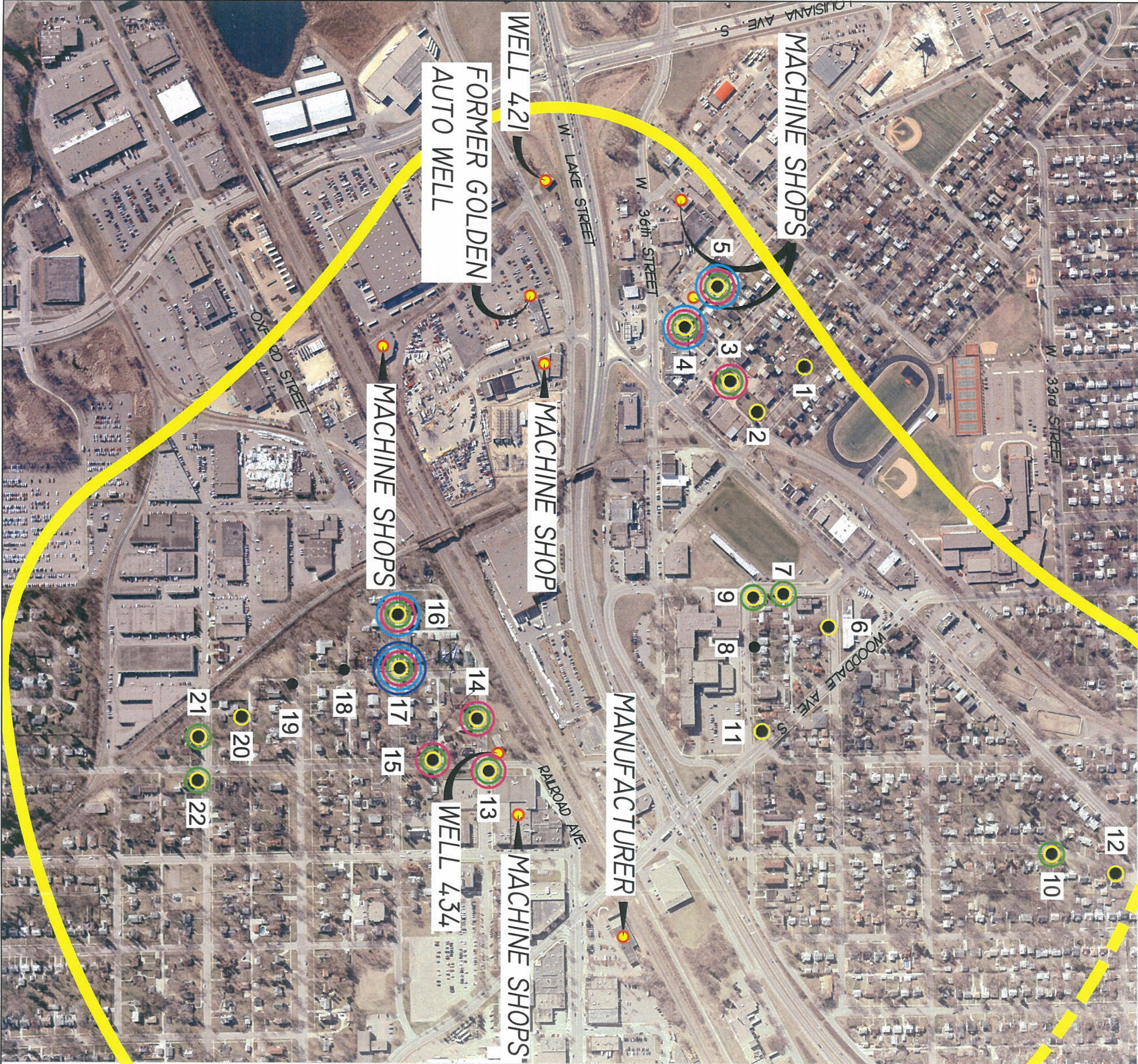
SOIL VAPOR PROBE LOCATIONS
ST. LOUIS PARK SOIL VAPOR SURVEY

ST. LOUIS PARK, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

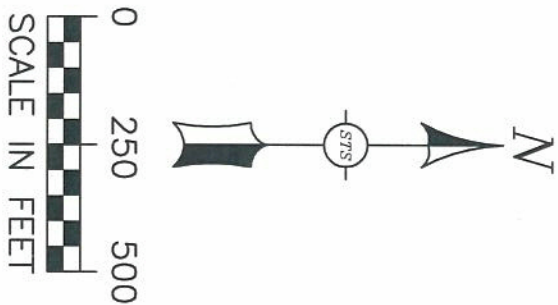


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Drawn :	TAK	12/26/2006
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Approved:	RLD	12/26/2006
PROJECT NUMBER	200605038	
FIGURE NUMBER	1	



- LEGEND**
- ESTIMATED EXTENT OF VOC PLUME IN DEEP DRIFT AQUIFER.
 - POTENTIAL SOURCE OF CHLORINATED VOCs
 - SOIL VAPOR PROBE LOCATION
 - VOCs DETECTED
 - EXCEEDING SCREENING VALUE
 - 10X EXCEEDING SCREENING VALUE
 - 100X EXCEEDING SCREENING VALUE
 - 1000X EXCEEDING SCREENING VALUE



NOTE: BASE MAP PROVIDED BY MARKHURD AERIAL PHOTOGRAPH DATED APRIL 04, 2000.

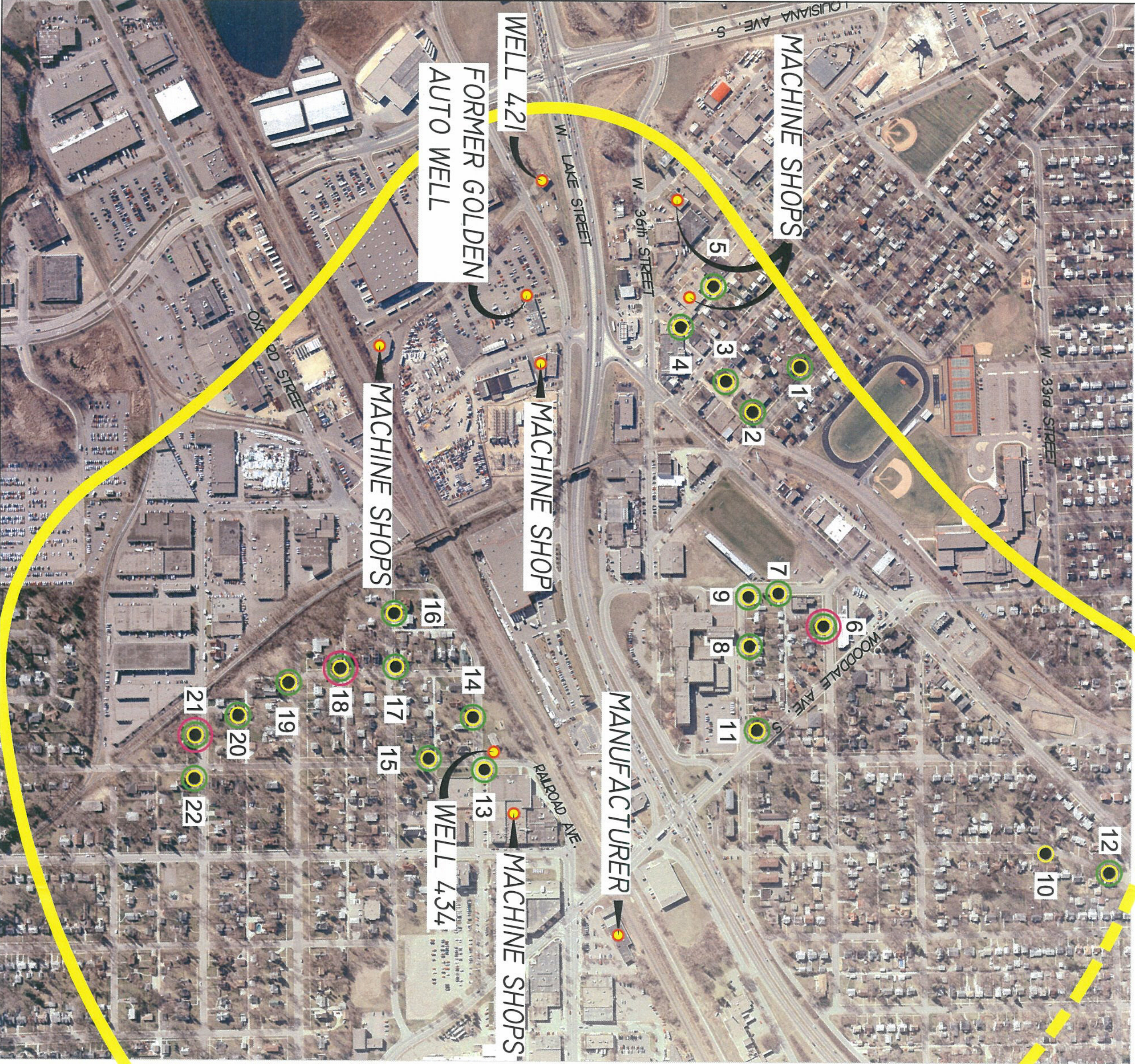
LOCATIONS OF DETECTED PCE/TCE IN SOIL VAPOR
ST. LOUIS PARK SOIL VAPOR SURVEY

ST. LOUIS PARK, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY



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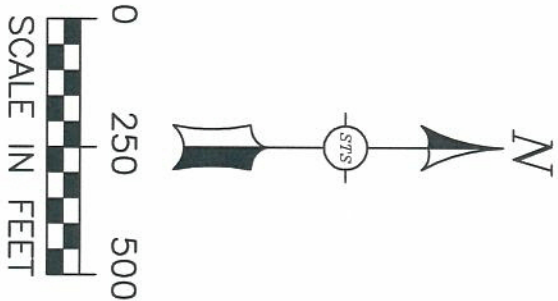
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Approved:	RLD	12/26/2006
PROJECT NUMBER	200605038	
FIGURE NUMBER	2	



NOTE: BASE MAP PROVIDED BY MARKHURD AERIAL PHOTOGRAPH DATED APRIL 04, 2000.

LEGEND

- ESTIMATED EXTENT OF VOC PLUME FOR DEEP DRIFT AQUIFER.
- POTENTIAL SOURCE OF CHLORINATED VOCs
- SOIL VAPOR PROBE LOCATION
- BENZENE DETECTED
- EXCEEDING SCREENING VALUE
- 10X EXCEEDING SCREENING VALUE



LOCATIONS OF DETECTED BENZENE IN SOIL VAPOR
ST. LOUIS PARK SOIL VAPOR SURVEY

ST. LOUIS PARK, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

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PROJECT NUMBER	200605038	
FIGURE NUMBER	3	



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Table 1. Soil Vapor Probes Sampling Summary

STS Project Number <u>200605038</u>					Approximate Depth to Groundwater at site (feet from surface)									
Date: <u>16-Nov-06</u>					Vapor Probe Advancement Method (Manual or Probe)									
Inititals: <u>JR</u>					Probe									
STS Sample ID	Sample Collection Time	Sample Depth (ft.)	Soil Type in Sample Zone	PID	Quad-Gas Readings (GEM 500)						Suma Canister Sample			
					O2 %	CH4 %	CO2 %	Balance % (other compounds)	Purge Start Time	Purge End Time (secs)	Canister Number	Initial Vacuum Gauge Reading (in. Hg)	Final Vacuum Gauge Reading (in. Hg)	Canister Filling Time (sec.)
SVP-20	1120	8.00	poorly graded sand	<1	18.6	0.0	2.9	78.4	0	275	0908			240.00
SVP-19	1150	8.00	poorly graded sand	<1	19.4	0.0	2.0	78.6	0.0	290.0	1151			240.00
SVP-18	1210	8.00	poorly graded sand	<1	18.5	0.0	2.4	79.1	0.0	290.0	0907			240.00
SVP-17	1230	8.00	poorly graded sand	<1	19.8	0.0	0.9	79.4	0.0	360.0	1167			240.00
DUPLICATE OF SVP 17	1250	8.00	poorly graded sand	<1	19.8	0.0	0.9	79.4	0.0	290.0	0770			240.00
SVP-16	1300	8.00	poorly graded sand	<1	19.6	0.0	1.2	79.0	0.0	290.0	0896			240.00
EQUIP BLANK	930	8.00	poorly graded sand	<1	20.8	0.0	0.0	79.2	0.0	85.0	1101			240.00

Table 1. Soil Vapor Probes Sampling Summary

STS Project Number <u>200605038</u>					Approximate Depth to Groundwater at site (feet from surface)									
Date: <u>Nov-16-06 and Nov-17-06</u>					Vapor Probe Advancement Method (Manual or Probe)									
Initials: <u>JR</u>					Probe									
STS Sample ID	Sample Collection Time	Sample Depth (ft.)	Soil Type in Sample Zone	PID	Quad-Gas Readings (GEM 500)						Suma Canister Sample			
					O2 %	CH4 %	CO2 %	Balance % (other compounds)	Purge Start Time	Purge End Time (secs)	Canister Number	Initial Vacuum Gauge Reading (in. Hg)	Final Vacuum Gauge Reading (in. Hg)	Canister Filling Time (sec.)
SVP-14	1320	8.00	poorly graded sand	<1	20.0	0.0	0.7	79.3	0.0	275.0	1132			240.00
SVP-13	1345	8.00	poorly graded sand	<1	20.1	0.0	0.6	79.3	0.0	280.0	0774			240.00
SVP-15	1415	8.00	poorly graded sand	<1	20.0	0.0	0.5	79.4	0.0	300.0	0920			240.00
SVP-21	1450	8.00	poorly graded sand	<1	19.9	0.0	0.1	79.1	0.0	280.0	1147			240.00
SVP-22	1520	8.00	poorly graded sand	<1	18.9	0.0	2.1	79.0	0.0	270.0	0773			240.00
SVP-2	1555	8.00	poorly graded sand	<1	20.0	0.0	0.4	79.6	0.0	290.0	1169			240.00
SVP-1	1615	8.00	poorly graded sand	<1	20.1	0.0	0.6	79.2	0.0	290.0	0895			240.00



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Table 1. Soil Vapor Probes Sampling Summary

STS Project Number <u>200605038</u>					Approximate Depth to Groundwater at site (feet from surface) _____									
Date: <u>16-Nov-06</u>					Vapor Probe Advancement Method (Manual or Probe) _____									
Inititals: <u>JR</u>					Probe _____									

STS Sample ID	Sample Collection Time	Sample Depth (ft.)	Soil Type in Sample Zone	PID	Quad-Gas Readings (GEM 500)						Suma Canister Sample			
					O2 %	CH4 %	CO2 %	Balance % (other compounds)	Purge Start Time	Purge End Time (secs)	Canister Number	Initial Vacuum Gauge Reading (in. Hg)	Final Vacuum Gauge Reading (in. Hg)	Canister Filling Time (sec.)
SVP-5	1645	8.00	poorly graded sand	<1	20.1	0.0	0.5	79.4	0.0	290.0	0998			240.00
SVP-4	1710	8.00	poorly graded sand	<1	19.5	0.0	0.8	79.8	0.0	300.0	0905			240.00
DUPLICATE OF SVP-4	1730	8.00	poorly graded sand	<1	19.5	0.0	0.8	79.8	0.0	290.0	1027			240.00
SVP-3	730	8.00	poorly graded sand	<1	20.0	0.0	0.5	79.5	0.0	280.0	0882			240.00
SVP-10	805	8.00	sandy clay	<1	19.4	0.0	1.4	79.3	0.0	300.0	0892			240.00
SVP-12	840	8.00	poorly graded sand	<1	19.4	0.0	0.9	79.8	0.0	280.0	0900			240.00



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Table 1. Soil Vapor Probes Sampling Summary

STS Project Number <u>200605038</u>					Approximate Depth to Groundwater at site (feet from surface) _____									
Date: <u>17-Nov-06</u>					Vapor Probe Advancement Method (Manual or Probe) _____									
Inititals: <u>JR</u>					Probe _____									
STS Sample ID	Sample Collection Time	Sample Depth (ft.)	Soil Type in Sample Zone	PID	Quad-Gas Readings (GEM 500)						Suma Canister Sample			
					O2 %	CH4 %	CO2 %	Balance % (other compounds)	Purge Start Time	Purge End Time (secs)	Canister Number	Initial Vacuum Gauge Reading (in. Hg)	Final Vacuum Gauge Reading (in. Hg)	Canister Filling Time (sec.)
SVP-7	945	8.00	poorly graded sand	<1	19.9	0.0	0.4	79.7	0.0	290.0	1174			240.00
SVP-6	1025	8.00	poorly graded sand	<1	20.2	0.0	0.3	79.4	0.0	290.0	1000			240.00
DUPLICATE OF SVP-6	1030	8.00	poorly graded sand	<1	20.2	0.0	0.3	79.4	0.0	290.0	0921			240.00
SVP-9	1110	8.00	poorly graded sand	<1	20.0	0.0	0.5	79.5	0.0	290.0	0874			240.00
SVP-11	1140	8.00	poorly graded sand	<1	20.0	0.0	0.6	79.4	0.0	290.0	1021			240.00
SVP-8	1210	8.00	poorly graded sand	<1	20.4	0.0	0.3	79.3	0.0	290.0	0876			240.00



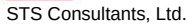
STS Consultants, Ltd.

Table 2. Soil Vapor Probes Locations

St. Louis Park Soil Vapor Survey

STS Project Number:

Sample ID	GPS Date	Latitude and Longitude	Sample Location/Address
SVP1	11/16/2006 16:20	N44 56.465 W93 21.874	3380 Library Ln
SVP2	11/16/2006 15:56	N44 56.102 W93 21.560	3362 Library Ln
SVP3	11/17/2006 8:08	N44 56.372 W93 21.833	6824 Brownlow Ave
SVP4	11/16/2006 17:12	N44 56.345 W93 21.937	6730 Walker St
SVP5	11/16/2006 16:46	N44 56.378 W93 21.995	3356 Gorham Ave
SVP6	11/17/2006 10:22	N44 56.463 W93 21.604	3455 Dakota Ave
SVP7	11/17/2006 11:28	N44 56.414 W93 21.632	3455 Dakota Ave/along 35th Ave
SVP8	11/17/2006 12:12	N44 56.410 W93 21.600	6316 35th St W
SVP9	11/17/2006 11:27	N44 56.413 W93 21.615	Intersection of Dakota Ave and 35th St
SVP10	11/17/2006 7:17	N44 56.617 W93 21.337	3329 Alabama Ave S
SVP11	11/17/2006 11:41	N44 56.406 W93 21.479	Intersection of Woodale St. and 35th St
SVP12	11/17/2006 8:35	N44 56.670 W93 21.326	3308 Alabama Ave S
SVP13	11/16/2006 8:57	N44 56.213 W93 21.460	3600 W 36th St
SVP14	11/16/2006 8:54	N44 56.213 W93 21.488	Joywig Park
SVP15	11/16/2006 8:15	N44 56.183 W93 21.455	3700 Alabama Ave S
SVP16	11/16/2006 8:51	N44 56.152 W93 21.613	6324 Oxford St
SVP17	11/16/2006 8:49	N44 56.146 W93 21.563	6304 Oxford St
SVP18	11/16/2006 9:00	N44 56.108 W93 21.557	6770 Colorado Ave S
SVP19	11/16/2006 8:35	N44 56.089 W93 21.553	6227 Goodrich Ave
SVP20	11/16/2006 8:40	N44 56.041 W93 21.542	6227 Goodrich Ave/ in back along Alley
SVP21	11/16/2006 8:31	N44 56.004 W93 21.504	3850 Brunswick Ave S
SVP22	11/16/2006 8:29	N44 56.006 W93 21.447	6027 Cambridge St



St. Louis Park Soil Vapor Survey
STS Project Number: 200605038

SVP-1 0895	SVP-2 1169	SVP-3 0882	SVP-4 0905	SVP-4 Duplicate #1027	SVP-5 0998	SVP-6 1000	SVP-6 Duplicate # 0921	SVP-7 1174	SVP-8 0876	SVP-9 0874	SVP-10 0892	SVP-11 1021
[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]
1042348012	1042348011	1042348018	1042348014	1042348015	1042348013	1042348022	1042348026	1042348021	1042348025	1042348023	1042348019	1042348024
11	12	13	14	15	16	17	18	19	20	21	22	23
2.38E+02 ESS	1.67E+02 ESS	1.74E+02 ESS	1.11E+02 ESS	1.70E+02 ESS	9.73E+01 ESS	1.09E+02 E	5.98E+01	9.77E+01	6.35E+01	8.55E+01 E	1.61E+02 ESS	7.15E+01
5.70E+00 SS	4.00E+00 SS	1.06E+01	4.90E+00 SS	5.70E+00 SS	5.20E+00 SS	2.63E+01	5.90E+00	1.24E+01	5.70E+00	6.20E+00	1.01E+01 SS	4.80E+00
3.68E+01	2.64E+01	3.17E+01	2.49E+01	3.43E+01	2.15E+01	2.31E+01 SS	1.55E+01 SS	5.12E+01 SS	1.39E+01 SS	2.01E+01 SS	3.06E+01	1.65E+01 SS
6.30E+00	2.40E+00	3.70E+00	9.20E+00	4.70E+00	2.50E+00	5.90E+00 SS	3.70E+00 SS	4.00E+00 SS	2.80E+00 SS	2.20E+00 SS	1.70E+00	5.50E+00 SS
			2.90E+00	3.20E+00	9.00E+00						2.50E+00	
7.70E+00	3.80E+00	7.60E+00	2.24E+01	2.67E+01	3.60E+00	6.90E+00	4.00E+00	1.32E+01	4.90E+00	5.10E+00	4.20E+00	4.50E+00
2.40E+00	3.30E+00	3.40E+00	2.35E+01	2.45E+01	3.50E+00	2.20E+00 SS		1.80E+00 SS	1.80E+00 SS	3.70E+00 SS	2.80E+00	
6.70E+00	6.40E+00	1.65E+01	4.80E+00	6.50E+00	1.03E+01	1.43E+01	4.20E+00	9.00E+00	8.30E+00	7.50E+00	1.18E+01	9.60E+00
				4.10E+00 SS	3.90E+00 SS						6.60E+00 SS	
		1.00E+01				6.64E+01			5.10E+00	2.17E+01		
7.40E+00 SS	4.60E+00 SS	1.10E+01	5.10E+00 SS	7.40E+00 SS	2.90E+00 SS	5.16E+01	5.00E+00	1.72E+01	8.00E+00	1.20E+01	4.30E+00 SS	6.50E+00
4.20E+00	2.70E+00				3.00E+00						3.10E+00	
2.60E+00 SS			2.20E+00 SS	2.30E+00 SS		1.50E+00		1.90E+00	1.80E+00	1.60E+00	2.50E+00 SS	
2.97E+01	2.75E+01		4.63E+01	4.56E+01	3.39E+01	5.24E+01	3.44E+01	4.15E+01		4.05E+01	4.02E+01	
						2.00E+00						
5.10E+00	5.20E+00	2.52E+02 IS	6.84E+01	7.88E+01	5.20E+00			1.48E+01		1.14E+01	8.50E+00	3.30E+00
1.64E+01	1.21E+01	2.17E+01	1.31E+01	1.83E+01	8.40E+00	4.29E+01	1.18E+01	3.14E+01	1.54E+01	1.74E+01	5.21E+01	1.60E+01
			9.30E+00	1.06E+01								
			2.32E+01	2.52E+01	1.12E+02							
					2.00E+00							
7.20E+00		8.30E+00	7.70E+00	9.00E+00	9.40E+00	4.80E+00		6.30E+00			1.33E+01	
			4.30E+00								4.30E+00	
1.13E+01	6.40E+00	1.75E+01	1.07E+01	1.60E+01	1.38E+01	1.29E+01	5.00E+00	1.47E+01	6.10E+00	7.70E+00	3.80E+01	6.80E+00
4.30E+00	2.90E+00	4.50E+00	4.30E+00	5.90E+00	2.90E+00	4.20E+00	2.00E+00	5.20E+00	2.70E+00	3.60E+00	1.24E+01	3.00E+00

(1) - Database from the USEPA's spreadsheet models incorporating the Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings (posted in 2004): http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm. These data are based on National Center for Environmental Assessment (NCEA) - these toxicological data are based on less strict scientific review compared to IRIS and are considered 3-year shelf life values.

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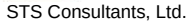
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SS - This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value

1M - This analyte did not meet the secondary source verification criteria for the initial calibration.

4.05E+02 - Detected concentration exceeds Residential Intrusion Screening Value / MN Action Level

- Detected concentration exceeds Residential Intrusion Screening Value / MN Action Level ten times or more



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STS Project Number: 200605038

SVP-12 0900	SVP-13 0774	SVP-14 1132	SVP-15 0920	SVP-16 0896	SVP-17 1167	SVP-17 Duplicate # 0770	SVP-18 0907	SVP-19 1151	SVP-20 0908	SVP-21 1147	SVP-22 0773	Equipment Blank # 1101
[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]	[ug/m³]
1042348020	1042348007	1042348006	1042348010	1042348005	1042348004	1042348016	1042348003	1042348002	1042348001	1042348008	1042348009	1042348017
24	25	26	27	28	29	30	31	32	33	34	35	36
7.55E+01	7.88E+01 1ME	9.40E+01	1.19E+02 ESS	1.75E+02 1ME	2.43E+01	1.55E+02 ESS	1.14E+02	1.66E+02 1ME	7.70E+01 1ME	1.98E+02 ESS	1.79E+02 ESS	2.59E+01
4.40E+00	8.90E+00 1M	6.20E+00 1M	6.50E+00 SS	5.40E+00 1M	6.20E+00 1M	1.09E+01 SS	2.89E+01 1M	4.80E+00 1ME	5.70E+00 1ME	1.43E+01 SS	5.30E+00 SS	1.60E+00
1.76E+01 SS	1.28E+01	2.60E+01	2.22E+01	2.60E+01	2.75E+01	1.35E+01	9.41E+01	3.52E+01	1.62E+01	2.88E+01	3.12E+01	5.00E+00 SS
3.40E+00 SS	6.50E+00	5.50E+00	5.10E+00	4.40E+00	3.90E+00	3.50E+00	9.80E+00	2.30E+00	5.00E+00	3.20E+00	2.70E+00	1.60E+00 SS
						2.30E+00						
						2.10E+00						
4.20E+00	6.40E+00	4.80E+00	5.70E+00	5.50E+00	5.20E+00	8.40E+00	1.83E+01	4.80E+00	6.30E+00	9.40E+00	5.00E+00	
						3.80E+00						
					2.10E+00	2.80E+00						
					1.24E+01	9.60E+00						
					2.07E+01	1.82E+01						
	2.50E+00	2.20E+00	3.50E+00	1.25E+01	4.86E+01	4.44E+01	8.06E+02	2.40E+00	2.30E+00	3.30E+00	3.40E+00	1.90E+00 SS
						6.00E+00 SS						
1.12E+01	9.40E+00	1.04E+01	1.06E+01	8.90E+00	9.70E+00	1.48E+01	1.41E+01	8.80E+00	8.20E+00	7.90E+00	9.60E+00	
	4.00E+00 1M					5.50E+00 SS	7.70E+00 1M					
	7.00E+00	4.60E+00			5.40E+00	9.10E+00	1.43E+01	4.60E+00	4.40E+00			
6.50E+00	4.70E+00 1M	5.60E+00 1M	7.60E+00 SS	5.70E+00 1M		8.40E+00 SS	4.03E+01 1M	5.00E+00 1ME	5.60E+00 1ME	2.21E+01 SS	7.10E+00 SS	2.40E+00
	3.40E+00				6.70E+00 1M	5.60E+00		5.80E+00		3.30E+00		
	2.00E+00 1M	3.50E+00 1M	2.39E+01 SS	1.40E+00 1M	1.20E+00 1M	2.09E+01 SS	2.83E+01 1M		3.40E+00 1ME	5.40E+00 SS	3.10E+00 SS	7.00E+00
							1.14E+02					
	3.89E+01		3.61E+01	2.66E+01	2.22E+01	2.04E+01	4.93E+02	2.19E+01		3.21E+01	3.82E+01	
	2.00E+00					3.00E+00	2.20E+00					
						4.80E+00						
3.40E+00	1.26E+02	6.05E+02	5.69E+01	1.65E+02	2.56E+03	2.68E+03			3.70E+00	2.15E+01	1.65E+01	
1.43E+01	2.15E+01	1.76E+01	1.80E+01	1.90E+01	1.57E+01	2.77E+01	4.69E+01	1.35E+01	1.61E+01	3.05E+01	1.52E+01	5.60E+00
			3.40E+00									
	1.09E+01	1.63E+01	4.70E+00	4.18E+01	8.33E+02	9.00E+02				6.20E+00	4.00E+00	
			2.00E+00	1.38E+01	1.64E+01	1.58E+01	3.94E+01					
						4.00E+00 SS						
5.10E+00	6.30E+00	4.20E+00	4.90E+00	6.70E+00	4.90E+00	8.90E+00	2.04E+01		4.30E+00	5.30E+00	6.60E+00	
						4.30E+00	4.50E+00					
1.70E+01	1.36E+01	9.70E+00	1.10E+01	1.41E+01	1.49E+01	2.41E+01	3.33E+01	8.60E+00	1.20E+01	1.47E+01	1.02E+01	
8.50E+00	5.50E+00	3.80E+00	6.80E+00	5.40E+00	6.00E+00	1.11E+01	1.22E+01	3.40E+00	4.70E+00	5.10E+00	4.30E+00	

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**St. Louis Park
Soil Vapor Survey
Sampling and Analysis Plan**

Minnesota Pollution Control Agency
St. Paul, Minnesota

STS Project 200605038

October 27, 2006

Vapor Intrusion Investigation - St. Louis Park

Sampling and Analysis Plan

Project Title: W437 - St. Louis Park Soil Vapor Survey, STS 200605038

Date: October 27, 2006

Document Developed for: Minnesota Pollution Control Agency

Document Developed by: STS Consultants, Ltd.

Prepared by: Peter Rzepecki

Date: 10-27-06

Peter Rzepecki – STS Environmental Staff

Reviewed by: Robert DeGroot

Date: 10-27-06

Robert DeGroot – STS Project Quality Assurance Officer

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St. Louis Park SAP
STS Project 200605038
October 27, 2006

I. Personnel, Responsibilities and Communication

STS Project Manager

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MPCA Hydrogeologist

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Fax: 651/296-9707
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Owner's Representative for the City of St Louis Park

Mr. Scott Anderson
Phone: 952/924-2557
Fax: 952/924-2570
Email: sanderson@stlouispark.org

The specific responsibilities of the project members are listed below.

STS Project Manager

1. Provide supervision and project assignments to STS staff.
2. Be responsible for review of all project deliverables.

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3. Meet with MPCA Project Manager for review of progress and results of the project activities.

STS Project Manager/Quality Assurance Officer

1. Be responsible for review of all project deliverables.
2. Define the objectives of the soil gas survey sampling program.
3. Provide appropriate criteria and guidance to the sampling personnel on the proper methods.
4. Review and validate data for samples analyzed by contract laboratories.

STS Project Field Manager (and designated STS staff)

1. Responsible for development of request for proposal, bidding process for subcontracting direct push work.
2. Oversee the project activities to ensure sampling methodologies, sample preparation reports, chain of custody procedures and all other procedures are being adequately adhered to. Assure that duplicate samples are provided with each set of samples.
3. Maintain record of all samples taken at the site including sample identification information.
4. Be in charge of project team organization and delegate specific tasks to be performed by field staff.
5. Coordinate arrangements with subcontractor.
6. Prepare/review all chain of custody records and field paper work.
7. Monitor for hazardous conditions while conducting the project field activities.
8. Complete the Project Report after all necessary work has been completed.

MPCA Project Manager

1. Coordinate the overall activities of the study.
2. Administer work orders and fiscal obligation with STS.
3. Provide assistance with site access issues, if required.

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4. Serve as point of contact for all MPCA responsibilities associated with the site evaluation.
5. Meet with the project team to discuss and review analytical results prior to finalizing the report.
6. Act as point of contact for public inquiries relative to the site study. All questions directed at STS will be deferred to the MPCA Project Manager.

MPCA Hydrogeologist

1. Participate in project meetings including data review.
2. Review the work plan prepared by STS relative to the objectives of the study and anticipated site conditions.
3. Provide technical assistance to STS as requested during the field activities.
4. Review the draft report for technical accuracy.

Owner's Representatives for City of St. Louis Park and City of Edina

1. Provide assistance with site access issues as required.

II. Project Background and Scope

The purpose of the proposed study is to evaluate if the volatile organic compounds' (VOCs) vapors are present above the water table within the residential areas in St. Louis Park. Such vapors may be present around the area of documented groundwater contamination. If vapors are present, the study is aimed at determining if the soil vapor concentrations are above the Soil Gas Action Levels designed to protect humans against harmful exposure (see: Vapor Intrusion Assessments Performed during Site Investigation – Guidance Document 4-01a, Petroleum Remediation Program, Minnesota Pollution Control Agency). All the most significant VOC contaminants detected in drift wells (benzene, toluene, vinyl chloride, cis-1,2-dichloroethene, trichloroethene and tetrachloroethene) have a potential to vaporize and migrate into residential buildings. Numerous environmental investigations conducted in the area were focused on

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groundwater contamination. Soil vapor contamination that has a potential to directly affect the area residents has not been investigated to date.

The aim of the study is to collect a limited number of soil gas samples from the residential areas that coincide with the extent of the documented drift aquifer groundwater plume. Since this is a screening study, the Data Quality Objectives are limited to:

- collecting samples from randomly selected sites (see Figure 1) and analyze them for the presence of VOCs, including all the analytes on the Minnesota Soil Gas List;
- analyzing the collected samples using the Environmental Protection Agency (EPA) TO-15 method;
- analyzing the VOC concentrations using reporting limits that are lower than Screening Values (provided by Dr. Laura Solem of MPCA) or Soil Gas Action Levels as defined in Appendix B of Vapor Intrusion Assessments Performed during Site Investigations – Guidance Document 4-01a, Petroleum Remediation Program, MPCA. Soil Gas Action Levels will be used where no Screening Values are available for a particular VOC.

Soil vapor sampling will take place during fall 2006 or winter 2006/2007.

III. Sampling and Analysis Design

Soil vapor samples will be obtained using a direct-push probes technology. The direct-push probe work will be carried out by a qualified contractor who will be selected by MPCA following a bidding process.

STS will follow the MPCA guidance for Vapor Risk Evaluation and Vapor Intrusion Assessment (Guidance Document 4.01a) for vapor sampling during investigation. The direct-push probes will be advanced using the Post-Run Tubing (PRT) sampler to the target depth of 8 feet. The expendable point will be extended at this interval. Subcontractor will provide new 1/4 inch I.D. sample tubing and the PRT adaptor.

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Subcontractor will be responsible for decontamination the sampling train prior to use, and between sample locations.

All parts of the equipment that are in contact with the soil gas collected as a sample will be decontaminated prior to and between the locations of a direct-push procedure. Equipment will be decontaminated using D.I. water and soap (Alconox or equivalent). New sample tubing will be used for each location. The tubing will be disposed of after collecting a soil gas sample.

Whenever sample points such as those described above will be sampled, STS will purge them prior to sample collection. The purge device used may vary with application, but generally will be a multi-gas detector (e.g. Landtech GEM 500) that has an integral, calibrated flow sample pump. This instrument has a steady-flow pump that allows for predictable sample line purging; the unit is allowed to run for the time required to purge the sample line. The instrument sensor readings are observed, and the sample line purging is considered to be confirmed when the readings appear to stabilize. The multi-gas monitor collects measurements of subsurface gas constituents such as oxygen, carbon dioxide, and methane which are useful in interpreting sample results and evaluating subsurface air flux. Sample will be collected in 1 liter summa canister after the readings of oxygen (O_2), carbon dioxide (CO_2) and methane (CH_4) are stabilized.

Photoionization detector (PID) equipped with a 10.6 eV lamp will also be used to monitor the soil gas.

All the field instruments will be maintained and calibrated every day before the work start as recommended by the manufacturer.

Field notes will be maintained with recorded sample collection time, sample depth, sampling location (address, GPS coordinates), canister filling time, PID readings, $O_2\%$, $CH_4\%$, $CO_2\%$.

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Soil gas samples will be collected from twenty-two (22) locations, as presented on Figure 1. The samples will be collected following field procedures recommended by Guidance Document 4.01a.

Quality assurance measures conducted by STS will include collection of one duplicate sample per day of sampling work, a minimum of one duplicate per ten collected samples. An equipment blank sample will also be obtained using subcontractor's equipment for collection of an air sample drawn through the sample train.

The collected samples will be labeled. The label will include the following information:

- sample identification;
- date and time of sample collection;
- sampling depth;
- name of a person who collected the sample.

The collected samples will be delivered to the Minnesota State Contractor Laboratory for analysis using the Method TO-15 and other methods as defined by the EPA in the EPA/625/R-96/0101b dated January 1999 or updates. The analysis will be conducted for all the VOCs included on the Minnesota Soil Gas List. Pace Laboratory will most likely be selected for the work. STS will request that the selected laboratory provide the reporting limits for each VOC analyzed using the Method TO-15 for the samples collected with the 1L summa canisters. These reporting limits will be compared to the Soil Gas Action Level (as defined in Guidance Document 4.01a).

IV. Internal Quality Assurance

Field Sampling

Quality assurance procedures to be used in the field are aimed at ensuring that contaminants are not introduced into the samples by sample containers, sampling equipment, sampling procedures, sample labeling equipment, or any other part of the sampling or transport procedures. STS will follow procedures described in the MPCA's

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Vapor Intrusion Assessment Performed During Site Investigations – Guidance Document 4-01a. All measurements taken in the field will be recorded on the STS Sampling Information Form and the STS Environmental Field Report will serve as the quality assurance record for on-site observations.

The following quality control tasks will be completed in the field to maintain the quality assurance objectives.

- Equipment is decontaminated prior to sampling.
- All field equipment/instruments are calibrated.
- Proper operation of field equipment is performed.
- Proper techniques are used when collecting and handling samples.
- Proper preservation methods are used with all samples.
- Sample information is always recorded.
- Chain of custody form is properly completed prior to laboratory shipment.

In addition to the aforementioned tasks, quality control samples generated by field sampling will include the collection of duplicate samples. One field duplicate will be prepared for each set of ten samples or day of sampling. The total number of duplicate samples will be at least 10% of all collected samples.

Laboratory Work

Quality Assurance Manuals (QAMs) for all MPCA approved laboratories are on file with MPCA. Standard operating procedures (SOPs) are included in the QAMs.

Laboratory QA/QC

The selected laboratory analyzing the collected soil gas samples by Method TO-15 shall follow the method as defined by the EPA in the EPA/625/R-96/010b dated January 1999 or updates. The summary of the requirements is provided by the MPCA's Vapor Intrusion Assessments Performed During Site Investigation – Guidance Document 4-01a, Petroleum Remediation Program, Minnesota Pollution Control Agency.

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Laboratory Coordination and Analytical Methods

Collected soil gas samples will be analyzed for volatile organic compounds (VOCs) using the Method TO-15 and other methods as defined by the EPA in the EPA/625/R-96/0101b dated January 1999 or updates. The testing will be performed by one of the MPCA approved laboratories, most likely Pace Laboratories which is a State Contractor. A chain-of-custody record will be initiated in the field at the time of sampling. A copy will accompany each set of samples shipped to the laboratory. STS will coordinate with the selected laboratory to secure the proper sampling containers (1 liter summa canisters) for analysis.

V. Corrective Action

Corrective action will be taken by the laboratory if analytical results do not meet the required Quality Assurance standards.

If the quality control audit detects unacceptable conditions or data, the Quality Assurance/Quality Control Officer and Project Manager are responsible for developing and initiating appropriate changes or modifications, and documenting those changes. The condition or problem will be specifically identified, recorded in the appropriate log or project file, investigated, and the cause determined. Changes or modifications will then be initiated to eliminate the problem. The corrective action may include the following options:

- Re-analyze samples if holding time and sample volume permit.
- Sampling and analyzing again.
- Evaluating and amending sampling and/or analytical procedures.
- Accepting data, while documenting a level of uncertainty.

Upon implementation of corrective action, STS will document the corrective action in the study report. A Corrective Action Report will be provided by the laboratory. The STS CAR will document actions taken and their effectiveness will be established and

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elimination of the problem verified. The laboratory CAR will be included as an attachment to the STS CAR. Details regarding the changes or modifications implemented and the results will be documented and retained in the project file. The case narrative(s) will fully describe any corrective action taken by the laboratory and/or STS. All field corrective action will be documented by the Project Manager on the Sampling Information Form and summarized for the site file.

VI. Data Assessment

The collected field and laboratory data will be presented in a report that will include tabulation of field monitored parameters (PID readings, oxygen, carbon dioxide, and methane), sample collection time, sample depth, sampling location (address, GPS coordinates), canister filling time, tabulation of the laboratory VOC analytical results, Screening Values or Soil Gas Action Levels, comparison of the detected values to Screening Values or Soil Gas Action Levels, data validation report, interpretation and discussion of the results and recommendations for further work. Laboratory analysis report will be included as an appendix to the report and will include quality control sample results and description of qualifiers. Data Validation Report will be included as another appendix to the report.



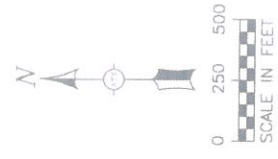
STS CONSULTANTS
15000 13th Ave N, Suite 100
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www.stsconsultants.com

PROPOSED SOIL VAPOR PROBE LOCATIONS
ST. LOUIS PARK
ST. LOUIS PARK, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

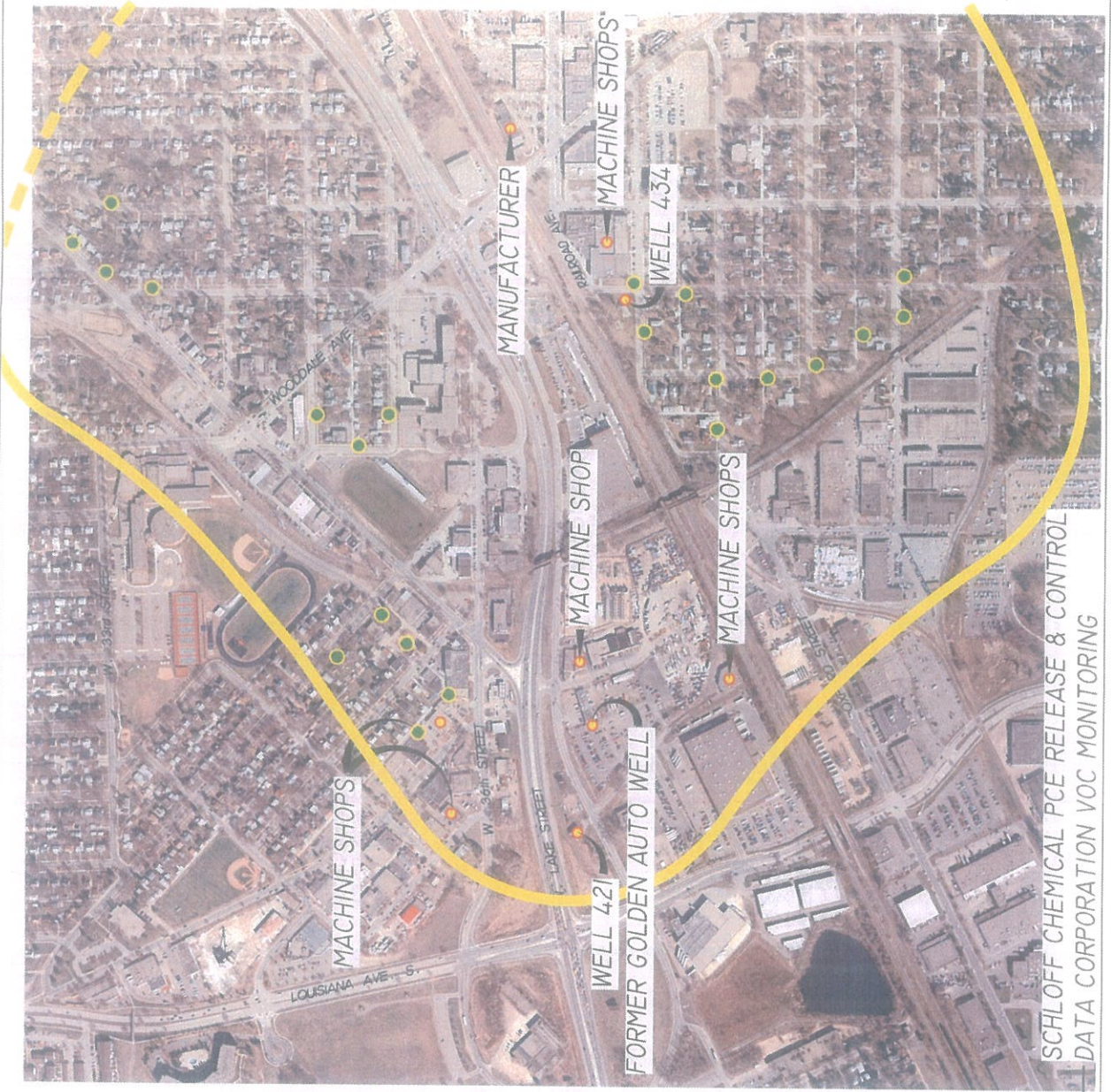
Drawn	2/4/06	2/20/2006
Checked	4/10/06	2/20/2006
Approved	4/10/06	2/20/2006
Project No.	200604638	
Sheet No.	1	

LEGEND

- ESTIMATED EXTENT OF VOC PLUME FOR DEEP DRIFT AQUIFER.
- PROPOSED SOIL VAPOR PROBE LOCATION



NOTE: BASE MAP PROVIDED BY MARKHURD AERIAL PHOTOGRAPH DATED APRIL 04, 2000.



SCHLOFF CHEMICAL PCE RELEASE & CONTROL
DATA CORPORATION VOC MONITORING

**Vapor Intrusion Investigation -
St. Louis Park
Quality Assurance Project Plan**

Minnesota Pollution Control Agency
St. Paul, Minnesota

STS Project 200605038

October 2006

Vapor Intrusion Investigation - St. Louis Park

Quality Assurance Project Plan

Project Title: W437 - St. Louis Park Soil Vapor Survey, STS 200605038

Date: October 27, 2006

Document Developed for: Minnesota Pollution Control Agency

Document Developed by: STS Consultants, Ltd.

Prepared by: Piotr Rzepecki
Date: 10-27-06
Peter Rzepecki – STS Environmental Staff

Reviewed by: Robert DeGroot
Date: 10-27-06
Robert DeGroot – STS Project Quality Assurance Officer

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1.0 PROJECT DESCRIPTION

1.1 Objective

The purpose of the proposed soil gas survey is to evaluate if the volatile organic compounds (VOCs) vapors are present above the water table within the residential areas in St. Louis Park and to check if such survey can be used efficiently in an attempt to identify potential sources of contamination.

1.2 Scope

The soil vapor survey will consist of approximately twenty-two (22) direct-push borings to a depth of approximately 8 feet below ground surface. The depth of probing must be at least 2 feet above groundwater; the STS field representative will determine the penetration depth to be used. The proposed exploration locations are illustrated on the attached Figure 1. At each exploration location, the direct-push equipment shall advance a soil vapor sampling device with expendable point for collection of subsurface vapor samples for analysis using EPA Method TO-15. The STS field representative will be responsible for identification of exploration locations and for vapor sample collection. The subcontractor is responsible to ensure that the appropriate methodologies are used, and equipment is in good working order. A summary of the required methodologies is provided in the following section. These specifications reference use of "Geoprobe" tooling and methodologies, as this system of direct-push equipment is readily available and widely accepted. Subcontractor can propose equivalent equipment manufactured by others, subject to approval by the STS Project Manager.

1.3 Data Usage

The ultimate goal of the soil gas survey is the collection of data needed to evaluate risks to human health or the environment from soil gas contamination. The MPCA will be responsible for decisions based on the data collected. This may include the need for immediate correction action due to impacts above action levels. The immediate goal of this screening level St. Louis Park soil vapor survey is to check if soil vapor contamination is present in shallow soils within residential areas near the earlier identified

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potential sources of chlorinated VOC contamination and within the drift groundwater plume documented to be present in the area.

1.4 Data Generation

The laboratories will be certified by the MDH for all analyses performed for the St. Louis Park soil gas survey. STS will ensure that the laboratory has the capabilities to analyze for all the parameters within the scope of work. Copies of the laboratory reports will be provided to the MPCA and MDH as requested and will be incorporated in the Documentation Report.

1.5 Data Validation

The data validation or review is critical to identifying the technical reliability of the data so it may be used correctly in decision making and project objectives. Any data that is considered to be an outlier will be reviewed for the effects the data has upon the project (see SAP for corrective action guidelines). If data is found to be of minimal importance, it may be excluded from the data set by the MPCA or resampling may be required. It is important that the data provided by the laboratory be verified by checking it for compliance, correctness, consistency, and completeness. STS will provide a Data Validation Report to MPCA once fieldwork and laboratory analysis is completed.

1.6 Analytical Services

Program management and field sampling will be conducted by STS. STS will use the MPCA pre-approved laboratory, Pace Analysis Services Inc. to perform all analyses for the St. Louis Park soil gas survey. The laboratory must maintain their certification with the MDH.

1.7 Reporting

All data reported by the laboratory must have the following items present:

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- a. Date received,
- b. date analyzed,
- c. analytical method number,
- d. reporting limits / PQL
- e. alphabetized compound list,
- f. concentration found,
- g. narrative,
- h. signature of lab officer on report,
- i. flags for data that anomalies,
- j.. laboratory sample numbers and our sample numbers,
- k. your project name on the report,
- l. the COC, and
- m. any method modifications explained.

All analytical reports received by the laboratory will be reviewed for the minimal reporting elements. The laboratory will maintain a copy of the raw data and the report for a minimum of 10 years. STS will maintain a copy of the laboratory report within the project files. All data associated with the St. Louis Park soil vapor survey will be stored at MPCA and STS.

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2.0 PROJECT ORGANIZATION AND RESPONSIBILITY

2.1 Introduction

The St. Louis Park soil vapor survey is a cooperative effort between the MPCA and STS which acts on behalf of MPCA. Coordination of site activities to meet the vapor intrusion investigation objectives and site concerns is required.

2.2 STS Field staff

1. Responsible for collection of equipment needed for vapor probe fieldwork.
2. Maintain record of all samples taken at the site including sample identification information.
3. Monitor for hazardous conditions while conducting field activities.
4. Responsible for the appropriate cleaning and maintenance of subcontractor's field equipment.

2.3 STS Project Manager

1. Review the results of earlier environmental investigations in the project area.
2. Meet with MPCA Project Manager to establish parameters for the site work plan.
3. Prepare site work plan for review and approval by the MPCA Project Manager.
4. Be in charge of the vapor intrusion team organization and delegation of specific tasks to be performed by field staff.
5. Review all laboratory analysis reports, chain of custody records and field paper work.
6. Complete vapor intrusion report after all necessary work has been completed.

2.4 MPCA Project Manager

1. Coordinate the overall activities of the vapor intrusion investigation.
2. Administer work orders and fiscal obligation with STS.
3. Provide assistance with site access issues as required.

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4. Coordinate meeting with MPCA and STS staff as required to define the work scope of the site.
5. Serve as point of contact for all MPCA responsibilities associated with the vapor intrusion investigation.
6. Final approval of all work plans.

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3.0 QUALITY ASSURANCE OBJECTIVES

3.1 Laboratory Quality Assurance

The contract laboratories are certified by the MDH and approved by the MPCA. The Quality Assurance objectives are stated in the Statement of Work (SOW) for the respective laboratory.

Quality Assurance Manuals (QAMs) are on file with the MPCA. Standard operating procedures (SOPs) are included in the QAMS.

3.2 Field Quality Assurance

Quality assurance procedures to be used in the field are aimed at ensuring that contaminants are not introduced into the samples by sample containers, sampling equipment, sampling procedures, sample label equipment, or any other part of the sampling transport procedures. STS will follow MPCA protocols as presented in MPCA guidance documents (Reference 1).

Field quality assurance procedures will include the following:

1. Field Equipment Blank – Quality assurance measures conducted by STS included collection of an equipment blank, using subcontractor's equipment for collection of an air sample drawn through the sample train.
2. Field Duplicates – One field duplicate will be prepared for each set of ten samples. Duplicate samples must be collected at the same time, at exactly the same location, with the same apparatus, into identical summa canisters prepared the same way, and with the same filling time.

3.3 Field Sampling Procedure

Whenever sample points are sampled, STS purges them prior to sample collection. The purge device used may vary with application, but is generally a multi-gas detector

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(e.g., Landtech GEM 500) that has an integral, calibrated flow sample pump. This instrument has a steady-flow pump that allows for predictable sample line purging; the unit is allowed to run for the time required to purge the sample line. The instrument sensor readings are observed, and the sample line purging is considered to be confirmed when the readings appear to stabilize. The multi-gas monitor collects measurements of subsurface gas constituents such as oxygen, carbon dioxide, and methane which are useful in interpreting sample results and evaluating subsurface air flux.

Photoionization detector (PID) equipped with a 10.6 eV lamp will also be used to monitor the soil gas.

All the field instruments will be maintained and calibrated every day before the work start as recommended by the manufacturer.

3.4 Field Equipment

All equipment is to be utilized in conformance with manufacturer's recommendations. Literature published by Geoprobe Systems Inc. is incorporated in this specification by reference. STS requires the use of "post-run tubing" (PRT) soil vapor sampling equipment for this project. STS has included copies of the Geoprobe Systems Inc. manual concerning PRT sampler tooling and usage. Subcontractor shall supply and maintain sufficient PRT equipment so that the investigation scope can be completed, providing for at least 25% increase in scope as a contingency measure.

Subcontractor shall advance the direct-push PRT sampler to the target depth, and extend the expendable point at this interval. The selected subcontractor performing the direct-push work will provide a new 1/4 inch I.D. sample tubing, to be used with PRT adaptor, also provided by a subcontractor. Once the equipment is properly terminated, STS will purge the sample line and collect a sample using materials and equipment supplied by our firm. Subcontractor is responsible to decontaminate the sampling train prior to use, and between sample locations. Quality assurance measures to be conducted by STS may include collection of an equipment blank, using subcontractor's equipment for collection of an air sample drawn through the sample train.

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STS Project 200605038
October 2006

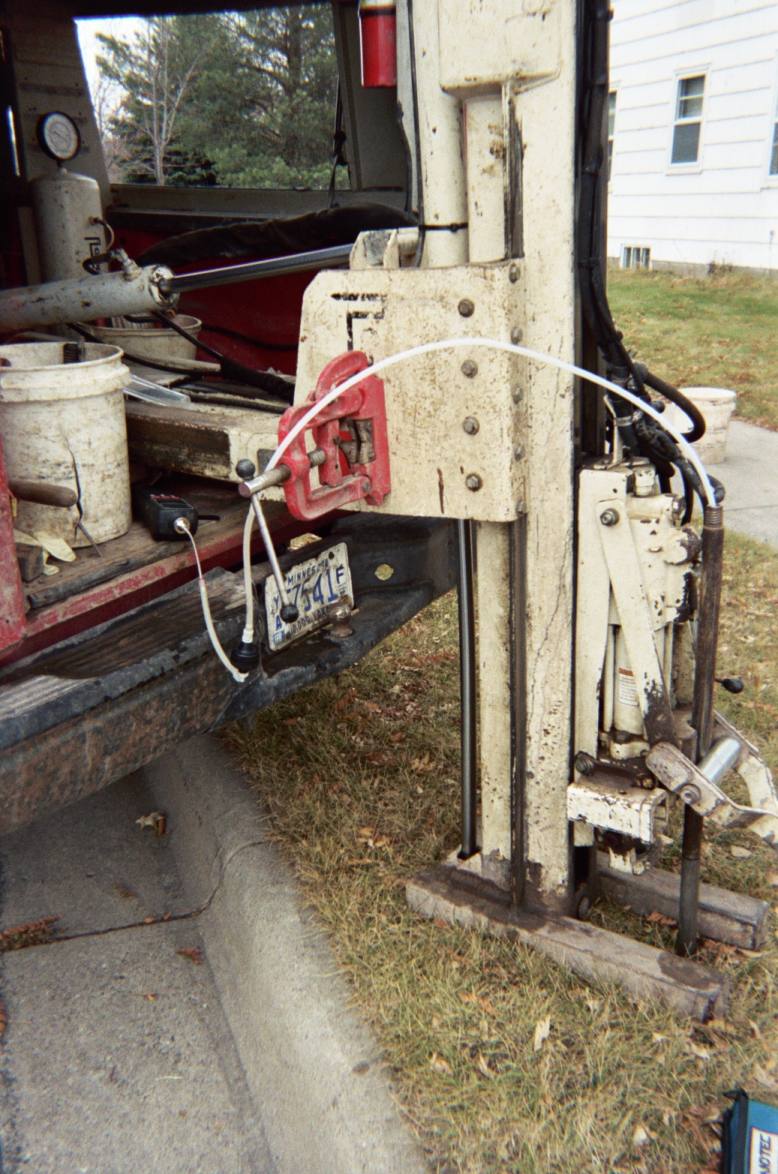
4.0 REFERENCE LIST

1. MPCA Vapor Assessments Performed During Site Investigations: Guidance Document 4-01a, April 2005.
2. MPCA Draft Quality Assurance Project Plan Guidance, June 2003.
3. "Instructions on the Preparation of a Superfund Division Quality Assurance Project Plan", Region V USEPA, Revision 0, June 2000.
4. "EPA Requirements for the Quality Assurance Project Plans", EPA QA /R-5, Interim Final, USEPA, November 1999.
5. STS "Sampling and Analysis Plan: W437 - *St. Louis Park Soil Vapor Survey*", November, 2006.













December 11, 2006

Mr. Peter Rzepecki
STS Consultants, Ltd.
10900 73rd Ave. North
Maple Plain, MN 55369

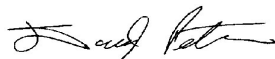
RE: Project: 200605038 ST. LOUIS PARK
Pace Project No.: 1042348

Dear Mr. Rzepecki:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Daryl Peterson

daryl.peterson@pacelabs.com
Project Manager

Illinois Certification #: 200011

Iowa Certification #: 368

Minnesota Certification #: 027-053-137

Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-20 # 0908		Lab ID: 1042348001	Collected: 11/16/06 11:20	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	77.0	ug/m3	0.75	1.57		12/06/06 05:08	67-64-1	1M,E
Benzene	5.7	ug/m3	1.0	1.57		12/06/06 05:08	71-43-2	1M
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 05:08	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 05:08	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 05:08	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 05:08	106-99-0	
2-Butanone (MEK)	16.2	ug/m3	0.94	1.57		12/06/06 05:08	78-93-3	
Carbon disulfide	5.0	ug/m3	0.99	1.57		12/06/06 05:08	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 05:08	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 05:08	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 05:08	75-00-3	
Chloroform	1.7	ug/m3	1.6	1.57		12/06/06 05:08	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 05:08	74-87-3	
Cyclohexane	6.3	ug/m3	1.1	1.57		12/06/06 05:08	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 05:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 05:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 05:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 05:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 05:08	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.6	1.57		12/06/06 05:08	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 05:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 05:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 05:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 05:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 05:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 05:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 05:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 05:08	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 05:08	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 05:08	141-78-6	
Ethylbenzene	8.2	ug/m3	1.4	1.57		12/06/06 05:08	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 05:08	622-96-8	1M
n-Heptane	4.4	ug/m3	1.3	1.57		12/06/06 05:08	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 05:08	87-68-3	
n-Hexane	5.6	ug/m3	1.1	1.57		12/06/06 05:08	110-54-3	1M
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 05:08	591-78-6	
Methylene Chloride	3.4	ug/m3	1.1	1.57		12/06/06 05:08	75-09-2	1M
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 05:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 05:08	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 05:08	91-20-3	
Propylene	ND	ug/m3	0.55	1.57		12/06/06 05:08	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 05:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 05:08	79-34-5	
Tetrachloroethene	3.7	ug/m3	2.2	1.57		12/06/06 05:08	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 05:08	109-99-9	
Toluene	16.1	ug/m3	1.2	1.57		12/06/06 05:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 05:08	120-82-1	

Date: 12/11/2006 12:38 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-20 # 0908		Lab ID: 1042348001	Collected: 11/16/06 11:20	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 05:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 05:08	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 05:08	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 05:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 05:08	76-13-1	
1,2,4-Trimethylbenzene	4.3	ug/m3	3.9	1.57		12/06/06 05:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 05:08	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 05:08	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 05:08	75-01-4	
m&p-Xylene	12.0	ug/m3	2.8	1.57		12/06/06 05:08	1330-20-7	
o-Xylene	4.7	ug/m3	1.4	1.57		12/06/06 05:08	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-19 # 1151		Lab ID: 1042348002	Collected: 11/16/06 11:50	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	166	ug/m3	0.75	1.57		12/06/06 06:37	67-64-1	1M, E
Benzene	4.8	ug/m3	1.0	1.57		12/06/06 06:37	71-43-2	1M
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 06:37	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 06:37	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 06:37	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 06:37	106-99-0	
2-Butanone (MEK)	35.2	ug/m3	0.94	1.57		12/06/06 06:37	78-93-3	
Carbon disulfide	2.3	ug/m3	0.99	1.57		12/06/06 06:37	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 06:37	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 06:37	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 06:37	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 06:37	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 06:37	74-87-3	
Cyclohexane	4.8	ug/m3	1.1	1.57		12/06/06 06:37	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 06:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 06:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 06:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 06:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 06:37	106-46-7	
Dichlorodifluoromethane	2.4	ug/m3	1.6	1.57		12/06/06 06:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 06:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 06:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 06:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 06:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 06:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 06:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 06:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 06:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 06:37	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 06:37	141-78-6	
Ethylbenzene	8.8	ug/m3	1.4	1.57		12/06/06 06:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 06:37	622-96-8	1M
n-Heptane	4.6	ug/m3	1.3	1.57		12/06/06 06:37	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 06:37	87-68-3	
n-Hexane	5.0	ug/m3	1.1	1.57		12/06/06 06:37	110-54-3	1M
2-Hexanone	5.8	ug/m3	1.3	1.57		12/06/06 06:37	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.57		12/06/06 06:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 06:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 06:37	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 06:37	91-20-3	
Propylene	21.9	ug/m3	0.55	1.57		12/06/06 06:37	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 06:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 06:37	79-34-5	
Tetrachloroethene	ND	ug/m3	2.2	1.57		12/06/06 06:37	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 06:37	109-99-9	
Toluene	13.5	ug/m3	1.2	1.57		12/06/06 06:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 06:37	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-19 # 1151		Lab ID: 1042348002	Collected: 11/16/06 11:50	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 06:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 06:37	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 06:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 06:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 06:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 06:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 06:37	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 06:37	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 06:37	75-01-4	
m&p-Xylene	8.6	ug/m3	2.8	1.57		12/06/06 06:37	1330-20-7	
o-Xylene	3.4	ug/m3	1.4	1.57		12/06/06 06:37	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-18 # 0907		Lab ID: 1042348003	Collected: 11/16/06 12:10		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	114	ug/m3	7.5	15.7		12/06/06 23:37	67-64-1	
Benzene	28.9	ug/m3	1.0	1.57		12/06/06 07:18	71-43-2	1M
Bromodichloromethane	3.8	ug/m3	2.2	1.57		12/06/06 07:18	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 07:18	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 07:18	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 07:18	106-99-0	
2-Butanone (MEK)	94.1	ug/m3	0.94	1.57		12/06/06 07:18	78-93-3	
Carbon disulfide	9.8	ug/m3	0.99	1.57		12/06/06 07:18	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 07:18	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 07:18	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 07:18	75-00-3	
Chloroform	7.1	ug/m3	1.6	1.57		12/06/06 07:18	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 07:18	74-87-3	
Cyclohexane	18.3	ug/m3	1.1	1.57		12/06/06 07:18	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 07:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 07:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:18	106-46-7	
Dichlorodifluoromethane	806	ug/m3	15.7	15.7		12/06/06 23:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 07:18	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 07:18	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 07:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 07:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 07:18	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 07:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 07:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 07:18	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 07:18	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 07:18	141-78-6	
Ethylbenzene	14.1	ug/m3	1.4	1.57		12/06/06 07:18	100-41-4	
4-Ethyltoluene	7.7	ug/m3	3.9	1.57		12/06/06 07:18	622-96-8	1M
n-Heptane	14.3	ug/m3	1.3	1.57		12/06/06 07:18	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 07:18	87-68-3	
n-Hexane	40.3	ug/m3	1.1	1.57		12/06/06 07:18	110-54-3	1M
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 07:18	591-78-6	
Methylene Chloride	28.3	ug/m3	1.1	1.57		12/06/06 07:18	75-09-2	1M
4-Methyl-2-pentanone (MIBK)	114	ug/m3	1.3	1.57		12/06/06 07:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 07:18	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 07:18	91-20-3	
Propylene	493	ug/m3	5.5	15.7		12/06/06 23:37	115-07-1	
Styrene	2.2	ug/m3	1.4	1.57		12/06/06 07:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 07:18	79-34-5	
Tetrachloroethene	ND	ug/m3	2.2	1.57		12/06/06 07:18	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 07:18	109-99-9	
Toluene	46.9	ug/m3	1.2	1.57		12/06/06 07:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 07:18	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-18 # 0907		Lab ID: 1042348003	Collected: 11/16/06 12:10	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 07:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 07:18	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 07:18	79-01-6	
Trichlorofluoromethane	39.4	ug/m3	1.7	1.57		12/06/06 07:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 07:18	76-13-1	
1,2,4-Trimethylbenzene	20.4	ug/m3	3.9	1.57		12/06/06 07:18	95-63-6	
1,3,5-Trimethylbenzene	4.5	ug/m3	3.9	1.57		12/06/06 07:18	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 07:18	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 07:18	75-01-4	
m&p-Xylene	33.3	ug/m3	2.8	1.57		12/06/06 07:18	1330-20-7	
o-Xylene	12.2	ug/m3	1.4	1.57		12/06/06 07:18	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-17 # 1167		Lab ID: 1042348004		Collected: 11/16/06 12:30		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	24.3	ug/m3	15.1	31.4		12/07/06 00:10	67-64-1	1M	
Benzene	6.2	ug/m3	1.0	1.57		12/06/06 07:59	71-43-2		
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 07:59	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 07:59	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 07:59	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 07:59	106-99-0		
2-Butanone (MEK)	27.5	ug/m3	0.94	1.57		12/06/06 07:59	78-93-3		
Carbon disulfide	3.9	ug/m3	0.99	1.57		12/06/06 07:59	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 07:59	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 07:59	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 07:59	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 07:59	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 07:59	74-87-3		
Cyclohexane	5.2	ug/m3	1.1	1.57		12/06/06 07:59	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 07:59	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 07:59	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:59	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:59	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 07:59	106-46-7		
Dichlorodifluoromethane	48.6	ug/m3	1.6	1.57		12/06/06 07:59	75-71-8		
1,1-Dichloroethane	2.1	ug/m3	1.3	1.57		12/06/06 07:59	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 07:59	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 07:59	75-35-4		
cis-1,2-Dichloroethene	12.4	ug/m3	1.3	1.57		12/06/06 07:59	156-59-2		
trans-1,2-Dichloroethene	20.7	ug/m3	1.3	1.57		12/06/06 07:59	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 07:59	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 07:59	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 07:59	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 07:59	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 07:59	141-78-6		
Ethylbenzene	9.7	ug/m3	1.4	1.57		12/06/06 07:59	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 07:59	622-96-8	1M	
n-Heptane	5.4	ug/m3	1.3	1.57		12/06/06 07:59	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 07:59	87-68-3		
n-Hexane	6.7	ug/m3	1.1	1.57		12/06/06 07:59	110-54-3	1M	
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 07:59	591-78-6		
Methylene Chloride	1.2	ug/m3	1.1	1.57		12/06/06 07:59	75-09-2	1M	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 07:59	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 07:59	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 07:59	91-20-3		
Propylene	22.2	ug/m3	0.55	1.57		12/06/06 07:59	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 07:59	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 07:59	79-34-5		
Tetrachloroethene	2560	ug/m3	44.0	31.4		12/07/06 00:10	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 07:59	109-99-9		
Toluene	15.7	ug/m3	1.2	1.57		12/06/06 07:59	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 07:59	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-17 # 1167		Lab ID: 1042348004	Collected: 11/16/06 12:30	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 07:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 07:59	79-00-5	
Trichloroethene	833	ug/m3	34.5	31.4		12/07/06 00:10	79-01-6	
Trichlorofluoromethane	16.4	ug/m3	1.7	1.57		12/06/06 07:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 07:59	76-13-1	
1,2,4-Trimethylbenzene	4.9	ug/m3	3.9	1.57		12/06/06 07:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 07:59	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 07:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 07:59	75-01-4	
m&p-Xylene	14.9	ug/m3	2.8	1.57		12/06/06 07:59	1330-20-7	
o-Xylene	6.0	ug/m3	1.4	1.57		12/06/06 07:59	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-16 # 0896		Lab ID: 1042348005		Collected: 11/16/06 13:00		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	175	ug/m3	0.75	1.57		12/06/06 08:40	67-64-1	1M,E	
Benzene	5.4	ug/m3	1.0	1.57		12/06/06 08:40	71-43-2	1M	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 08:40	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 08:40	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 08:40	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 08:40	106-99-0		
2-Butanone (MEK)	26.0	ug/m3	0.94	1.57		12/06/06 08:40	78-93-3		
Carbon disulfide	4.4	ug/m3	0.99	1.57		12/06/06 08:40	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 08:40	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 08:40	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 08:40	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 08:40	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 08:40	74-87-3		
Cyclohexane	5.5	ug/m3	1.1	1.57		12/06/06 08:40	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 08:40	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 08:40	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 08:40	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 08:40	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 08:40	106-46-7		
Dichlorodifluoromethane	12.5	ug/m3	1.6	1.57		12/06/06 08:40	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 08:40	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 08:40	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 08:40	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 08:40	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 08:40	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 08:40	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 08:40	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 08:40	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 08:40	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 08:40	141-78-6		
Ethylbenzene	8.9	ug/m3	1.4	1.57		12/06/06 08:40	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 08:40	622-96-8	1M	
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 08:40	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 08:40	87-68-3		
n-Hexane	5.7	ug/m3	1.1	1.57		12/06/06 08:40	110-54-3	1M	
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 08:40	591-78-6		
Methylene Chloride	1.4	ug/m3	1.1	1.57		12/06/06 08:40	75-09-2	1M	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 08:40	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 08:40	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 08:40	91-20-3		
Propylene	26.6	ug/m3	0.55	1.57		12/06/06 08:40	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 08:40	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 08:40	79-34-5		
Tetrachloroethene	165	ug/m3	2.2	1.57		12/06/06 08:40	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 08:40	109-99-9		
Toluene	19.0	ug/m3	1.2	1.57		12/06/06 08:40	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 08:40	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-16 # 0896		Lab ID: 1042348005	Collected: 11/16/06 13:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	3.4	ug/m3	1.7	1.57		12/06/06 08:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 08:40	79-00-5	
Trichloroethene	41.8	ug/m3	1.7	1.57		12/06/06 08:40	79-01-6	
Trichlorofluoromethane	13.8	ug/m3	1.7	1.57		12/06/06 08:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 08:40	76-13-1	
1,2,4-Trimethylbenzene	6.7	ug/m3	3.9	1.57		12/06/06 08:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 08:40	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 08:40	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 08:40	75-01-4	
m&p-Xylene	14.1	ug/m3	2.8	1.57		12/06/06 08:40	1330-20-7	
o-Xylene	5.4	ug/m3	1.4	1.57		12/06/06 08:40	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-14 # 1132		Lab ID: 1042348006		Collected: 11/16/06 13:20		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	94.0	ug/m3	3.8	7.85		12/07/06 20:00	67-64-1	1M	
Benzene	6.2	ug/m3	1.0	1.57		12/06/06 09:21	71-43-2		
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 09:21	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 09:21	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 09:21	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 09:21	106-99-0		
2-Butanone (MEK)	26.0	ug/m3	0.94	1.57		12/06/06 09:21	78-93-3		
Carbon disulfide	5.5	ug/m3	0.99	1.57		12/06/06 09:21	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 09:21	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 09:21	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 09:21	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 09:21	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 09:21	74-87-3		
Cyclohexane	4.8	ug/m3	1.1	1.57		12/06/06 09:21	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 09:21	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 09:21	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 09:21	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 09:21	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 09:21	106-46-7		
Dichlorodifluoromethane	2.2	ug/m3	1.6	1.57		12/06/06 09:21	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 09:21	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 09:21	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 09:21	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 09:21	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 09:21	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 09:21	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 09:21	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 09:21	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 09:21	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 09:21	141-78-6		
Ethylbenzene	10.4	ug/m3	1.4	1.57		12/06/06 09:21	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 09:21	622-96-8	1M	
n-Heptane	4.6	ug/m3	1.3	1.57		12/06/06 09:21	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 09:21	87-68-3		
n-Hexane	5.6	ug/m3	1.1	1.57		12/06/06 09:21	110-54-3	1M	
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 09:21	591-78-6		
Methylene Chloride	3.5	ug/m3	1.1	1.57		12/06/06 09:21	75-09-2	1M	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 09:21	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 09:21	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 09:21	91-20-3		
Propylene	ND	ug/m3	0.55	1.57		12/06/06 09:21	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 09:21	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 09:21	79-34-5		
Tetrachloroethene	605	ug/m3	11.0	7.85		12/07/06 20:00	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 09:21	109-99-9		
Toluene	17.6	ug/m3	1.2	1.57		12/06/06 09:21	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 09:21	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-14 # 1132		Lab ID: 1042348006	Collected: 11/16/06 13:20	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 09:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 09:21	79-00-5	
Trichloroethene	16.3	ug/m3	1.7	1.57		12/06/06 09:21	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 09:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 09:21	76-13-1	
1,2,4-Trimethylbenzene	4.2	ug/m3	3.9	1.57		12/06/06 09:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 09:21	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 09:21	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 09:21	75-01-4	
m&p-Xylene	9.7	ug/m3	2.8	1.57		12/06/06 09:21	1330-20-7	
o-Xylene	3.8	ug/m3	1.4	1.57		12/06/06 09:21	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-13 # 0774		Lab ID: 1042348007		Collected: 11/16/06 13:45		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	78.8	ug/m3	0.75	1.57		12/06/06 10:01	67-64-1	1M,E	
Benzene	8.9	ug/m3	1.0	1.57		12/06/06 10:01	71-43-2	1M	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 10:01	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 10:01	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 10:01	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 10:01	106-99-0		
2-Butanone (MEK)	12.8	ug/m3	0.94	1.57		12/06/06 10:01	78-93-3		
Carbon disulfide	6.5	ug/m3	0.99	1.57		12/06/06 10:01	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 10:01	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 10:01	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 10:01	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 10:01	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 10:01	74-87-3		
Cyclohexane	6.4	ug/m3	1.1	1.57		12/06/06 10:01	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 10:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 10:01	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 10:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 10:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 10:01	106-46-7		
Dichlorodifluoromethane	2.5	ug/m3	1.6	1.57		12/06/06 10:01	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 10:01	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 10:01	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 10:01	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 10:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 10:01	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 10:01	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 10:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 10:01	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 10:01	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 10:01	141-78-6		
Ethylbenzene	9.4	ug/m3	1.4	1.57		12/06/06 10:01	100-41-4		
4-Ethyltoluene	4.0	ug/m3	3.9	1.57		12/06/06 10:01	622-96-8	1M	
n-Heptane	7.0	ug/m3	1.3	1.57		12/06/06 10:01	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 10:01	87-68-3		
n-Hexane	4.7	ug/m3	1.1	1.57		12/06/06 10:01	110-54-3	1M	
2-Hexanone	3.4	ug/m3	1.3	1.57		12/06/06 10:01	591-78-6		
Methylene Chloride	2.0	ug/m3	1.1	1.57		12/06/06 10:01	75-09-2	1M	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 10:01	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 10:01	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 10:01	91-20-3		
Propylene	38.9	ug/m3	0.55	1.57		12/06/06 10:01	115-07-1		
Styrene	2.0	ug/m3	1.4	1.57		12/06/06 10:01	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 10:01	79-34-5		
Tetrachloroethene	126	ug/m3	2.2	1.57		12/06/06 10:01	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 10:01	109-99-9		
Toluene	21.5	ug/m3	1.2	1.57		12/06/06 10:01	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 10:01	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-13 # 0774		Lab ID: 1042348007	Collected: 11/16/06 13:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 10:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 10:01	79-00-5	
Trichloroethene	10.9	ug/m3	1.7	1.57		12/06/06 10:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 10:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 10:01	76-13-1	
1,2,4-Trimethylbenzene	6.3	ug/m3	3.9	1.57		12/06/06 10:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 10:01	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 10:01	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 10:01	75-01-4	
m&p-Xylene	13.6	ug/m3	2.8	1.57		12/06/06 10:01	1330-20-7	
o-Xylene	5.5	ug/m3	1.4	1.57		12/06/06 10:01	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-21 # 1147		Lab ID: 1042348008	Collected: 11/16/06 14:50	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	198	ug/m3	0.75	1.57		12/06/06 20:35	67-64-1	E,SS
Benzene	14.3	ug/m3	1.0	1.57		12/06/06 20:35	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 20:35	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 20:35	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 20:35	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 20:35	106-99-0	
2-Butanone (MEK)	28.8	ug/m3	0.94	1.57		12/06/06 20:35	78-93-3	
Carbon disulfide	3.2	ug/m3	0.99	1.57		12/06/06 20:35	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 20:35	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 20:35	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 20:35	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 20:35	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 20:35	74-87-3	
Cyclohexane	9.4	ug/m3	1.1	1.57		12/06/06 20:35	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 20:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 20:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 20:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 20:35	106-46-7	
Dichlorodifluoromethane	3.3	ug/m3	1.6	1.57		12/06/06 20:35	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 20:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 20:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 20:35	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 20:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 20:35	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 20:35	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 20:35	141-78-6	
Ethylbenzene	7.9	ug/m3	1.4	1.57		12/06/06 20:35	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 20:35	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 20:35	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 20:35	87-68-3	
n-Hexane	22.1	ug/m3	1.1	1.57		12/06/06 20:35	110-54-3	SS
2-Hexanone	3.3	ug/m3	1.3	1.57		12/06/06 20:35	591-78-6	
Methylene Chloride	5.4	ug/m3	1.1	1.57		12/06/06 20:35	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 20:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 20:35	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 20:35	91-20-3	
Propylene	32.1	ug/m3	0.55	1.57		12/06/06 20:35	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 20:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 20:35	79-34-5	
Tetrachloroethene	21.5	ug/m3	2.2	1.57		12/06/06 20:35	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 20:35	109-99-9	
Toluene	30.5	ug/m3	1.2	1.57		12/06/06 20:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 20:35	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-21 # 1147		Lab ID: 1042348008	Collected: 11/16/06 14:50	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 20:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 20:35	79-00-5	
Trichloroethene	6.2	ug/m3	1.7	1.57		12/06/06 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 20:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 20:35	76-13-1	
1,2,4-Trimethylbenzene	5.3	ug/m3	3.9	1.57		12/06/06 20:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 20:35	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 20:35	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 20:35	75-01-4	
m&p-Xylene	14.7	ug/m3	2.8	1.57		12/06/06 20:35	1330-20-7	
o-Xylene	5.1	ug/m3	1.4	1.57		12/06/06 20:35	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-22 # 0773		Lab ID: 1042348009	Collected: 11/16/06 15:20	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	179	ug/m3	0.75	1.57		12/06/06 21:55	67-64-1	E,SS
Benzene	5.3	ug/m3	1.0	1.57		12/06/06 21:55	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 21:55	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 21:55	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 21:55	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 21:55	106-99-0	
2-Butanone (MEK)	31.2	ug/m3	0.94	1.57		12/06/06 21:55	78-93-3	
Carbon disulfide	2.7	ug/m3	0.99	1.57		12/06/06 21:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 21:55	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 21:55	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 21:55	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 21:55	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 21:55	74-87-3	
Cyclohexane	5.0	ug/m3	1.1	1.57		12/06/06 21:55	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 21:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 21:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 21:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 21:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 21:55	106-46-7	
Dichlorodifluoromethane	3.4	ug/m3	1.6	1.57		12/06/06 21:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 21:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 21:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 21:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 21:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 21:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 21:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 21:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 21:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 21:55	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 21:55	141-78-6	
Ethylbenzene	9.6	ug/m3	1.4	1.57		12/06/06 21:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 21:55	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 21:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 21:55	87-68-3	
n-Hexane	7.1	ug/m3	1.1	1.57		12/06/06 21:55	110-54-3	SS
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 21:55	591-78-6	
Methylene Chloride	3.1	ug/m3	1.1	1.57		12/06/06 21:55	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 21:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 21:55	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 21:55	91-20-3	
Propylene	38.2	ug/m3	0.55	1.57		12/06/06 21:55	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 21:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 21:55	79-34-5	
Tetrachloroethene	16.5	ug/m3	2.2	1.57		12/06/06 21:55	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 21:55	109-99-9	
Toluene	15.2	ug/m3	1.2	1.57		12/06/06 21:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 21:55	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-22 # 0773		Lab ID: 1042348009	Collected: 11/16/06 15:20	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 21:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 21:55	79-00-5	
Trichloroethene	4.0	ug/m3	1.7	1.57		12/06/06 21:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 21:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 21:55	76-13-1	
1,2,4-Trimethylbenzene	6.6	ug/m3	3.9	1.57		12/06/06 21:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 21:55	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 21:55	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 21:55	75-01-4	
m&p-Xylene	10.2	ug/m3	2.8	1.57		12/06/06 21:55	1330-20-7	
o-Xylene	4.3	ug/m3	1.4	1.57		12/06/06 21:55	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-15 # 0920		Lab ID: 1042348010		Collected: 11/16/06 14:15		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	119	ug/m3	0.75	1.57		12/06/06 22:32	67-64-1	E,SS	
Benzene	6.5	ug/m3	1.0	1.57		12/06/06 22:32	71-43-2	SS	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 22:32	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 22:32	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 22:32	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 22:32	106-99-0		
2-Butanone (MEK)	22.2	ug/m3	0.94	1.57		12/06/06 22:32	78-93-3		
Carbon disulfide	5.1	ug/m3	0.99	1.57		12/06/06 22:32	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 22:32	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 22:32	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 22:32	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 22:32	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 22:32	74-87-3		
Cyclohexane	5.7	ug/m3	1.1	1.57		12/06/06 22:32	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 22:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 22:32	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 22:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 22:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 22:32	106-46-7		
Dichlorodifluoromethane	3.5	ug/m3	1.6	1.57		12/06/06 22:32	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 22:32	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 22:32	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 22:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 22:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 22:32	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 22:32	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 22:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 22:32	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 22:32	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 22:32	141-78-6		
Ethylbenzene	10.6	ug/m3	1.4	1.57		12/06/06 22:32	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 22:32	622-96-8	SS	
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 22:32	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 22:32	87-68-3		
n-Hexane	7.6	ug/m3	1.1	1.57		12/06/06 22:32	110-54-3	SS	
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 22:32	591-78-6		
Methylene Chloride	23.9	ug/m3	1.1	1.57		12/06/06 22:32	75-09-2	SS	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 22:32	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 22:32	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 22:32	91-20-3		
Propylene	36.1	ug/m3	0.55	1.57		12/06/06 22:32	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 22:32	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 22:32	79-34-5		
Tetrachloroethene	56.9	ug/m3	2.2	1.57		12/06/06 22:32	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 22:32	109-99-9		
Toluene	18.0	ug/m3	1.2	1.57		12/06/06 22:32	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 22:32	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-15 # 0920		Lab ID: 1042348010	Collected: 11/16/06 14:15	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 22:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 22:32	79-00-5	
Trichloroethene	4.7	ug/m3	1.7	1.57		12/06/06 22:32	79-01-6	
Trichlorofluoromethane	2.0	ug/m3	1.7	1.57		12/06/06 22:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 22:32	76-13-1	
1,2,4-Trimethylbenzene	4.9	ug/m3	3.9	1.57		12/06/06 22:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 22:32	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 22:32	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 22:32	75-01-4	
m&p-Xylene	11.0	ug/m3	2.8	1.57		12/06/06 22:32	1330-20-7	
o-Xylene	6.8	ug/m3	1.4	1.57		12/06/06 22:32	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-2 # 1169		Lab ID: 1042348011	Collected: 11/16/06 15:55	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	167	ug/m3	0.75	1.57		12/06/06 23:09	67-64-1	E,SS
Benzene	4.0	ug/m3	1.0	1.57		12/06/06 23:09	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 23:09	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 23:09	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 23:09	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 23:09	106-99-0	
2-Butanone (MEK)	26.4	ug/m3	0.94	1.57		12/06/06 23:09	78-93-3	
Carbon disulfide	2.4	ug/m3	0.99	1.57		12/06/06 23:09	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 23:09	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 23:09	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 23:09	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 23:09	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 23:09	74-87-3	
Cyclohexane	3.8	ug/m3	1.1	1.57		12/06/06 23:09	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 23:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 23:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:09	106-46-7	
Dichlorodifluoromethane	3.3	ug/m3	1.6	1.57		12/06/06 23:09	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 23:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 23:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 23:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 23:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 23:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 23:09	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 23:09	141-78-6	
Ethylbenzene	6.4	ug/m3	1.4	1.57		12/06/06 23:09	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 23:09	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 23:09	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 23:09	87-68-3	
n-Hexane	4.6	ug/m3	1.1	1.57		12/06/06 23:09	110-54-3	SS
2-Hexanone	2.7	ug/m3	1.3	1.57		12/06/06 23:09	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.57		12/06/06 23:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 23:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 23:09	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 23:09	91-20-3	
Propylene	27.5	ug/m3	0.55	1.57		12/06/06 23:09	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 23:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 23:09	79-34-5	
Tetrachloroethene	5.2	ug/m3	2.2	1.57		12/06/06 23:09	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 23:09	109-99-9	
Toluene	12.1	ug/m3	1.2	1.57		12/06/06 23:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 23:09	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-2 # 1169		Lab ID: 1042348011	Collected: 11/16/06 15:55	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 23:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 23:09	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 23:09	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 23:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 23:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 23:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 23:09	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 23:09	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 23:09	75-01-4	
m&p-Xylene	6.4	ug/m3	2.8	1.57		12/06/06 23:09	1330-20-7	
o-Xylene	2.9	ug/m3	1.4	1.57		12/06/06 23:09	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-1 # 0895		Lab ID: 1042348012	Collected: 11/16/06 16:15	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	238	ug/m3	0.75	1.57		12/06/06 23:46	67-64-1	E,SS
Benzene	5.7	ug/m3	1.0	1.57		12/06/06 23:46	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 23:46	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 23:46	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 23:46	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 23:46	106-99-0	
2-Butanone (MEK)	36.8	ug/m3	0.94	1.57		12/06/06 23:46	78-93-3	
Carbon disulfide	6.3	ug/m3	0.99	1.57		12/06/06 23:46	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 23:46	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 23:46	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 23:46	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 23:46	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 23:46	74-87-3	
Cyclohexane	7.7	ug/m3	1.1	1.57		12/06/06 23:46	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 23:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 23:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 23:46	106-46-7	
Dichlorodifluoromethane	2.4	ug/m3	1.6	1.57		12/06/06 23:46	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 23:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 23:46	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 23:46	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 23:46	141-78-6	
Ethylbenzene	6.7	ug/m3	1.4	1.57		12/06/06 23:46	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 23:46	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 23:46	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 23:46	87-68-3	
n-Hexane	7.4	ug/m3	1.1	1.57		12/06/06 23:46	110-54-3	SS
2-Hexanone	4.2	ug/m3	1.3	1.57		12/06/06 23:46	591-78-6	
Methylene Chloride	2.6	ug/m3	1.1	1.57		12/06/06 23:46	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 23:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 23:46	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 23:46	91-20-3	
Propylene	29.7	ug/m3	0.55	1.57		12/06/06 23:46	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/06/06 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 23:46	79-34-5	
Tetrachloroethene	5.1	ug/m3	2.2	1.57		12/06/06 23:46	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 23:46	109-99-9	
Toluene	16.4	ug/m3	1.2	1.57		12/06/06 23:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 23:46	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-1 # 0895		Lab ID: 1042348012	Collected: 11/16/06 16:15	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 23:46	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 23:46	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 23:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 23:46	76-13-1	
1,2,4-Trimethylbenzene	7.2	ug/m3	3.9	1.57		12/06/06 23:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 23:46	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 23:46	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 23:46	75-01-4	
m&p-Xylene	11.3	ug/m3	2.8	1.57		12/06/06 23:46	1330-20-7	
o-Xylene	4.3	ug/m3	1.4	1.57		12/06/06 23:46	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-5 # 0998		Lab ID: 1042348013	Collected: 11/16/06 16:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	97.3	ug/m3	0.75	1.57		12/07/06 00:22	67-64-1	E,SS
Benzene	5.2	ug/m3	1.0	1.57		12/07/06 00:22	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/07/06 00:22	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/07/06 00:22	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/07/06 00:22	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/07/06 00:22	106-99-0	
2-Butanone (MEK)	21.5	ug/m3	0.94	1.57		12/07/06 00:22	78-93-3	
Carbon disulfide	2.5	ug/m3	0.99	1.57		12/07/06 00:22	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/07/06 00:22	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/07/06 00:22	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/07/06 00:22	75-00-3	
Chloroform	9.0	ug/m3	1.6	1.57		12/07/06 00:22	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/07/06 00:22	74-87-3	
Cyclohexane	3.6	ug/m3	1.1	1.57		12/07/06 00:22	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/07/06 00:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/07/06 00:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:22	106-46-7	
Dichlorodifluoromethane	3.5	ug/m3	1.6	1.57		12/07/06 00:22	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 00:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 00:22	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:22	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/07/06 00:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 00:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 00:22	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/07/06 00:22	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/07/06 00:22	141-78-6	
Ethylbenzene	10.3	ug/m3	1.4	1.57		12/07/06 00:22	100-41-4	
4-Ethyltoluene	3.9	ug/m3	3.9	1.57		12/07/06 00:22	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/07/06 00:22	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/07/06 00:22	87-68-3	
n-Hexane	2.9	ug/m3	1.1	1.57		12/07/06 00:22	110-54-3	SS
2-Hexanone	3.0	ug/m3	1.3	1.57		12/07/06 00:22	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.57		12/07/06 00:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/07/06 00:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/07/06 00:22	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/07/06 00:22	91-20-3	
Propylene	33.9	ug/m3	0.55	1.57		12/07/06 00:22	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/07/06 00:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/07/06 00:22	79-34-5	
Tetrachloroethene	5.2	ug/m3	2.2	1.57		12/07/06 00:22	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/07/06 00:22	109-99-9	
Toluene	8.4	ug/m3	1.2	1.57		12/07/06 00:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/07/06 00:22	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-5 # 0998		Lab ID: 1042348013	Collected: 11/16/06 16:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/07/06 00:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/07/06 00:22	79-00-5	
Trichloroethene	112	ug/m3	1.7	1.57		12/07/06 00:22	79-01-6	
Trichlorofluoromethane	2.0	ug/m3	1.7	1.57		12/07/06 00:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/07/06 00:22	76-13-1	
1,2,4-Trimethylbenzene	9.4	ug/m3	3.9	1.57		12/07/06 00:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/07/06 00:22	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/07/06 00:22	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/07/06 00:22	75-01-4	
m&p-Xylene	13.8	ug/m3	2.8	1.57		12/07/06 00:22	1330-20-7	
o-Xylene	2.9	ug/m3	1.4	1.57		12/07/06 00:22	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-4 # 0905		Lab ID: 1042348014	Collected: 11/16/06 17:10	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	111	ug/m3	0.75	1.57		12/07/06 00:59	67-64-1	E,SS
Benzene	4.9	ug/m3	1.0	1.57		12/07/06 00:59	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/07/06 00:59	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/07/06 00:59	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/07/06 00:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/07/06 00:59	106-99-0	
2-Butanone (MEK)	24.9	ug/m3	0.94	1.57		12/07/06 00:59	78-93-3	
Carbon disulfide	9.2	ug/m3	0.99	1.57		12/07/06 00:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/07/06 00:59	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/07/06 00:59	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/07/06 00:59	75-00-3	
Chloroform	2.9	ug/m3	1.6	1.57		12/07/06 00:59	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/07/06 00:59	74-87-3	
Cyclohexane	22.4	ug/m3	1.1	1.57		12/07/06 00:59	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/07/06 00:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/07/06 00:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 00:59	106-46-7	
Dichlorodifluoromethane	23.5	ug/m3	1.6	1.57		12/07/06 00:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 00:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 00:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 00:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/07/06 00:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 00:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 00:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/07/06 00:59	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/07/06 00:59	141-78-6	
Ethylbenzene	4.8	ug/m3	1.4	1.57		12/07/06 00:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/07/06 00:59	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/07/06 00:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/07/06 00:59	87-68-3	
n-Hexane	5.1	ug/m3	1.1	1.57		12/07/06 00:59	110-54-3	SS
2-Hexanone	ND	ug/m3	1.3	1.57		12/07/06 00:59	591-78-6	
Methylene Chloride	2.2	ug/m3	1.1	1.57		12/07/06 00:59	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/07/06 00:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/07/06 00:59	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/07/06 00:59	91-20-3	
Propylene	46.3	ug/m3	0.55	1.57		12/07/06 00:59	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/07/06 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/07/06 00:59	79-34-5	
Tetrachloroethene	68.4	ug/m3	2.2	1.57		12/07/06 00:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/07/06 00:59	109-99-9	
Toluene	13.1	ug/m3	1.2	1.57		12/07/06 00:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/07/06 00:59	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-4 # 0905		Lab ID: 1042348014	Collected: 11/16/06 17:10	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	9.3	ug/m3	1.7	1.57		12/07/06 00:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/07/06 00:59	79-00-5	
Trichloroethene	23.2	ug/m3	1.7	1.57		12/07/06 00:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/07/06 00:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/07/06 00:59	76-13-1	
1,2,4-Trimethylbenzene	7.7	ug/m3	3.9	1.57		12/07/06 00:59	95-63-6	
1,3,5-Trimethylbenzene	4.3	ug/m3	3.9	1.57		12/07/06 00:59	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/07/06 00:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/07/06 00:59	75-01-4	
m&p-Xylene	10.7	ug/m3	2.8	1.57		12/07/06 00:59	1330-20-7	
o-Xylene	4.3	ug/m3	1.4	1.57		12/07/06 00:59	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 1027		Lab ID: 1042348015	Collected: 11/16/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	170	ug/m3	0.75	1.57		12/07/06 01:35	67-64-1	E,SS
Benzene	5.7	ug/m3	1.0	1.57		12/07/06 01:35	71-43-2	SS
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/07/06 01:35	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/07/06 01:35	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/07/06 01:35	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/07/06 01:35	106-99-0	
2-Butanone (MEK)	34.3	ug/m3	0.94	1.57		12/07/06 01:35	78-93-3	
Carbon disulfide	4.7	ug/m3	0.99	1.57		12/07/06 01:35	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/07/06 01:35	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/07/06 01:35	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/07/06 01:35	75-00-3	
Chloroform	3.2	ug/m3	1.6	1.57		12/07/06 01:35	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/07/06 01:35	74-87-3	
Cyclohexane	26.7	ug/m3	1.1	1.57		12/07/06 01:35	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/07/06 01:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/07/06 01:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 01:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 01:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/07/06 01:35	106-46-7	
Dichlorodifluoromethane	24.5	ug/m3	1.6	1.57		12/07/06 01:35	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 01:35	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/07/06 01:35	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 01:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 01:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/07/06 01:35	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/07/06 01:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 01:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/07/06 01:35	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/07/06 01:35	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/07/06 01:35	141-78-6	
Ethylbenzene	6.5	ug/m3	1.4	1.57		12/07/06 01:35	100-41-4	
4-Ethyltoluene	4.1	ug/m3	3.9	1.57		12/07/06 01:35	622-96-8	SS
n-Heptane	ND	ug/m3	1.3	1.57		12/07/06 01:35	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/07/06 01:35	87-68-3	
n-Hexane	7.4	ug/m3	1.1	1.57		12/07/06 01:35	110-54-3	SS
2-Hexanone	ND	ug/m3	1.3	1.57		12/07/06 01:35	591-78-6	
Methylene Chloride	2.3	ug/m3	1.1	1.57		12/07/06 01:35	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/07/06 01:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/07/06 01:35	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.57		12/07/06 01:35	91-20-3	
Propylene	45.6	ug/m3	0.55	1.57		12/07/06 01:35	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/07/06 01:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/07/06 01:35	79-34-5	
Tetrachloroethene	78.8	ug/m3	2.2	1.57		12/07/06 01:35	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/07/06 01:35	109-99-9	
Toluene	18.3	ug/m3	1.2	1.57		12/07/06 01:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/07/06 01:35	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 1027		Lab ID: 1042348015	Collected: 11/16/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	10.6	ug/m3	1.7	1.57		12/07/06 01:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/07/06 01:35	79-00-5	
Trichloroethene	25.2	ug/m3	1.7	1.57		12/07/06 01:35	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/07/06 01:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/07/06 01:35	76-13-1	
1,2,4-Trimethylbenzene	9.0	ug/m3	3.9	1.57		12/07/06 01:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/07/06 01:35	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/07/06 01:35	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/07/06 01:35	75-01-4	
m&p-Xylene	16.0	ug/m3	2.8	1.57		12/07/06 01:35	1330-20-7	
o-Xylene	5.9	ug/m3	1.4	1.57		12/07/06 01:35	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 0770		Lab ID: 1042348016	Collected: 11/16/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	155	ug/m3	0.81	1.68		12/07/06 02:11	67-64-1	E,SS
Benzene	10.9	ug/m3	1.1	1.68		12/07/06 02:11	71-43-2	SS
Bromodichloromethane	2.5	ug/m3	2.4	1.68		12/07/06 02:11	75-27-4	
Bromoform	ND	ug/m3	3.5	1.68		12/07/06 02:11	75-25-2	
Bromomethane	ND	ug/m3	1.3	1.68		12/07/06 02:11	74-83-9	
1,3-Butadiene	ND	ug/m3	0.76	1.68		12/07/06 02:11	106-99-0	
2-Butanone (MEK)	13.5	ug/m3	1.0	1.68		12/07/06 02:11	78-93-3	
Carbon disulfide	3.5	ug/m3	1.1	1.68		12/07/06 02:11	75-15-0	
Carbon tetrachloride	2.3	ug/m3	2.2	1.68		12/07/06 02:11	56-23-5	
Chlorobenzene	2.1	ug/m3	1.6	1.68		12/07/06 02:11	108-90-7	
Chloroethane	ND	ug/m3	0.91	1.68		12/07/06 02:11	75-00-3	
Chloroform	ND	ug/m3	1.7	1.68		12/07/06 02:11	67-66-3	
Chloromethane	ND	ug/m3	0.71	1.68		12/07/06 02:11	74-87-3	
Cyclohexane	8.4	ug/m3	1.1	1.68		12/07/06 02:11	110-82-7	
Dibromochloromethane	ND	ug/m3	2.9	1.68		12/07/06 02:11	124-48-1	
1,2-Dibromoethane (EDB)	3.8	ug/m3	2.7	1.68		12/07/06 02:11	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/07/06 02:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/07/06 02:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/07/06 02:11	106-46-7	
Dichlorodifluoromethane	44.4	ug/m3	1.7	1.68		12/07/06 02:11	75-71-8	
1,1-Dichloroethane	2.8	ug/m3	1.4	1.68		12/07/06 02:11	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	1.68		12/07/06 02:11	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		12/07/06 02:11	75-35-4	
cis-1,2-Dichloroethene	9.6	ug/m3	1.4	1.68		12/07/06 02:11	156-59-2	
trans-1,2-Dichloroethene	18.2	ug/m3	1.4	1.68		12/07/06 02:11	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.6	1.68		12/07/06 02:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/07/06 02:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/07/06 02:11	10061-02-6	
Dichlorotetrafluoroethane	6.0	ug/m3	2.4	1.68		12/07/06 02:11	76-14-2	SS
Ethyl acetate	ND	ug/m3	1.2	1.68		12/07/06 02:11	141-78-6	
Ethylbenzene	14.8	ug/m3	1.5	1.68		12/07/06 02:11	100-41-4	
4-Ethyltoluene	5.5	ug/m3	4.2	1.68		12/07/06 02:11	622-96-8	SS
n-Heptane	9.1	ug/m3	1.4	1.68		12/07/06 02:11	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.7	1.68		12/07/06 02:11	87-68-3	
n-Hexane	8.4	ug/m3	1.2	1.68		12/07/06 02:11	110-54-3	SS
2-Hexanone	5.6	ug/m3	1.4	1.68		12/07/06 02:11	591-78-6	
Methylene Chloride	20.9	ug/m3	1.2	1.68		12/07/06 02:11	75-09-2	SS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	1.68		12/07/06 02:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	1.68		12/07/06 02:11	1634-04-4	
Naphthalene	ND	ug/m3	4.5	1.68		12/07/06 02:11	91-20-3	
Propylene	20.4	ug/m3	0.59	1.68		12/07/06 02:11	115-07-1	
Styrene	3.0	ug/m3	1.5	1.68		12/07/06 02:11	100-42-5	
1,1,2,2-Tetrachloroethane	4.8	ug/m3	2.4	1.68		12/07/06 02:11	79-34-5	
Tetrachloroethene	2680	ug/m3	47.0	33.6		12/07/06 18:48	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.0	1.68		12/07/06 02:11	109-99-9	
Toluene	27.7	ug/m3	1.3	1.68		12/07/06 02:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.7	1.68		12/07/06 02:11	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 0770		Lab ID: 1042348016	Collected: 11/16/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.68		12/07/06 02:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.8	1.68		12/07/06 02:11	79-00-5	
Trichloroethene	900	ug/m3	37.0	33.6		12/07/06 18:48	79-01-6	
Trichlorofluoromethane	15.8	ug/m3	1.8	1.68		12/07/06 02:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	4.0	ug/m3	2.7	1.68		12/07/06 02:11	76-13-1	SS
1,2,4-Trimethylbenzene	8.9	ug/m3	4.2	1.68		12/07/06 02:11	95-63-6	
1,3,5-Trimethylbenzene	4.3	ug/m3	4.2	1.68		12/07/06 02:11	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	1.68		12/07/06 02:11	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	1.68		12/07/06 02:11	75-01-4	
m&p-Xylene	24.1	ug/m3	3.0	1.68		12/07/06 02:11	1330-20-7	
o-Xylene	11.1	ug/m3	1.5	1.68		12/07/06 02:11	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: EQUIP BLANK # 1101		Lab ID: 1042348017	Collected: 11/16/06 09:30	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	25.9	ug/m3	0.75	1.57		12/08/06 00:07	67-64-1	
Benzene	1.6	ug/m3	1.0	1.57		12/08/06 00:07	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/08/06 00:07	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/08/06 00:07	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/08/06 00:07	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/08/06 00:07	106-99-0	
2-Butanone (MEK)	5.0	ug/m3	0.94	1.57		12/08/06 00:07	78-93-3	SS
Carbon disulfide	1.6	ug/m3	0.99	1.57		12/08/06 00:07	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/08/06 00:07	56-23-5	SS
Chlorobenzene	ND	ug/m3	1.5	1.57		12/08/06 00:07	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/08/06 00:07	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/08/06 00:07	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/08/06 00:07	74-87-3	SS
Cyclohexane	ND	ug/m3	1.1	1.57		12/08/06 00:07	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/08/06 00:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/08/06 00:07	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:07	106-46-7	
Dichlorodifluoromethane	1.9	ug/m3	1.6	1.57		12/08/06 00:07	75-71-8	SS
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 00:07	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 00:07	107-06-2	SS
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:07	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/08/06 00:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 00:07	10061-01-5	SS
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 00:07	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/08/06 00:07	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/08/06 00:07	141-78-6	SS
Ethylbenzene	ND	ug/m3	1.4	1.57		12/08/06 00:07	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/08/06 00:07	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.57		12/08/06 00:07	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/08/06 00:07	87-68-3	
n-Hexane	2.4	ug/m3	1.1	1.57		12/08/06 00:07	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.57		12/08/06 00:07	591-78-6	SS
Methylene Chloride	7.0	ug/m3	1.1	1.57		12/08/06 00:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/08/06 00:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/08/06 00:07	1634-04-4	SS
Naphthalene	ND	ug/m3	4.2	1.57		12/08/06 00:07	91-20-3	
Propylene	ND	ug/m3	0.55	1.57		12/08/06 00:07	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/08/06 00:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/08/06 00:07	79-34-5	
Tetrachloroethene	ND	ug/m3	2.2	1.57		12/08/06 00:07	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/08/06 00:07	109-99-9	
Toluene	5.6	ug/m3	1.2	1.57		12/08/06 00:07	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/08/06 00:07	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: EQUIP BLANK # 1101		Lab ID: 1042348017	Collected: 11/16/06 09:30	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 00:07	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 00:07	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/08/06 00:07	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/08/06 00:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/08/06 00:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 00:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 00:07	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/08/06 00:07	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/08/06 00:07	75-01-4	
m&p-Xylene	ND	ug/m3	2.8	1.57		12/08/06 00:07	1330-20-7	
o-Xylene	ND	ug/m3	1.4	1.57		12/08/06 00:07	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-3 # 0882		Lab ID: 1042348018		Collected: 11/17/06 07:30		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	174	ug/m3	0.75	1.57		12/06/06 19:20	67-64-1	E,SS	
Benzene	10.6	ug/m3	1.0	1.57		12/06/06 19:20	71-43-2		
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 19:20	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 19:20	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 19:20	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 19:20	106-99-0		
2-Butanone (MEK)	31.7	ug/m3	0.94	1.57		12/06/06 19:20	78-93-3		
Carbon disulfide	3.7	ug/m3	0.99	1.57		12/06/06 19:20	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 19:20	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 19:20	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 19:20	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/06/06 19:20	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 19:20	74-87-3		
Cyclohexane	7.6	ug/m3	1.1	1.57		12/06/06 19:20	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 19:20	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 19:20	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:20	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:20	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:20	106-46-7		
Dichlorodifluoromethane	3.4	ug/m3	1.6	1.57		12/06/06 19:20	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 19:20	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 19:20	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:20	75-35-4	SS	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:20	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:20	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 19:20	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 19:20	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 19:20	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 19:20	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 19:20	141-78-6		
Ethylbenzene	16.5	ug/m3	1.4	1.57		12/06/06 19:20	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/06/06 19:20	622-96-8	SS	
n-Heptane	10.0	ug/m3	1.3	1.57		12/06/06 19:20	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 19:20	87-68-3		
n-Hexane	11.0	ug/m3	1.1	1.57		12/06/06 19:20	110-54-3		
2-Hexanone	ND	ug/m3	1.3	1.57		12/06/06 19:20	591-78-6		
Methylene Chloride	ND	ug/m3	1.1	1.57		12/06/06 19:20	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 19:20	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 19:20	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 19:20	91-20-3		
Propylene	ND	ug/m3	0.55	1.57		12/06/06 19:20	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 19:20	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 19:20	79-34-5		
Tetrachloroethene	252	ug/m3	11.0	7.85		12/07/06 19:24	127-18-4	IS	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 19:20	109-99-9		
Toluene	21.7	ug/m3	1.2	1.57		12/06/06 19:20	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 19:20	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-3 # 0882		Lab ID: 1042348018	Collected: 11/17/06 07:30	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 19:20	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 19:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 19:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 19:20	76-13-1	
1,2,4-Trimethylbenzene	8.3	ug/m3	3.9	1.57		12/06/06 19:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/06/06 19:20	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 19:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 19:20	75-01-4	
m&p-Xylene	17.5	ug/m3	2.8	1.57		12/06/06 19:20	1330-20-7	
o-Xylene	4.5	ug/m3	1.4	1.57		12/06/06 19:20	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-10 # 0892		Lab ID: 1042348019		Collected: 11/17/06 08:05		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	161	ug/m3	0.75	1.57		12/06/06 19:58	67-64-1	E,SS	
Benzene	10.1	ug/m3	1.0	1.57		12/06/06 19:58	71-43-2	SS	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/06/06 19:58	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/06/06 19:58	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/06/06 19:58	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/06/06 19:58	106-99-0		
2-Butanone (MEK)	30.6	ug/m3	0.94	1.57		12/06/06 19:58	78-93-3		
Carbon disulfide	1.7	ug/m3	0.99	1.57		12/06/06 19:58	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/06/06 19:58	56-23-5		
Chlorobenzene	ND	ug/m3	1.5	1.57		12/06/06 19:58	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/06/06 19:58	75-00-3		
Chloroform	2.5	ug/m3	1.6	1.57		12/06/06 19:58	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/06/06 19:58	74-87-3		
Cyclohexane	4.2	ug/m3	1.1	1.57		12/06/06 19:58	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/06/06 19:58	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/06/06 19:58	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:58	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:58	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/06/06 19:58	106-46-7		
Dichlorodifluoromethane	2.8	ug/m3	1.6	1.57		12/06/06 19:58	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 19:58	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/06/06 19:58	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:58	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:58	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/06/06 19:58	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/06/06 19:58	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 19:58	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/06/06 19:58	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/06/06 19:58	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/06/06 19:58	141-78-6		
Ethylbenzene	11.8	ug/m3	1.4	1.57		12/06/06 19:58	100-41-4		
4-Ethyltoluene	6.6	ug/m3	3.9	1.57		12/06/06 19:58	622-96-8	SS	
n-Heptane	ND	ug/m3	1.3	1.57		12/06/06 19:58	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/06/06 19:58	87-68-3		
n-Hexane	4.3	ug/m3	1.1	1.57		12/06/06 19:58	110-54-3	SS	
2-Hexanone	3.1	ug/m3	1.3	1.57		12/06/06 19:58	591-78-6		
Methylene Chloride	2.5	ug/m3	1.1	1.57		12/06/06 19:58	75-09-2	SS	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/06/06 19:58	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/06/06 19:58	1634-04-4		
Naphthalene	ND	ug/m3	4.2	1.57		12/06/06 19:58	91-20-3		
Propylene	40.2	ug/m3	0.55	1.57		12/06/06 19:58	115-07-1		
Styrene	ND	ug/m3	1.4	1.57		12/06/06 19:58	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/06/06 19:58	79-34-5		
Tetrachloroethene	8.5	ug/m3	2.2	1.57		12/06/06 19:58	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/06/06 19:58	109-99-9		
Toluene	52.1	ug/m3	1.2	1.57		12/06/06 19:58	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/06/06 19:58	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-10 # 0892		Lab ID: 1042348019	Collected: 11/17/06 08:05	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/06/06 19:58	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/06/06 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/06/06 19:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/06/06 19:58	76-13-1	
1,2,4-Trimethylbenzene	13.3	ug/m3	3.9	1.57		12/06/06 19:58	95-63-6	
1,3,5-Trimethylbenzene	4.3	ug/m3	3.9	1.57		12/06/06 19:58	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/06/06 19:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/06/06 19:58	75-01-4	
m&p-Xylene	38.0	ug/m3	2.8	1.57		12/06/06 19:58	1330-20-7	
o-Xylene	12.4	ug/m3	1.4	1.57		12/06/06 19:58	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-12 # 0900		Lab ID: 1042348020	Collected: 11/17/06 08:40	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	75.5	ug/m3	0.75	1.57		12/08/06 00:45	67-64-1	
Benzene	4.4	ug/m3	1.0	1.57		12/08/06 00:45	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/08/06 00:45	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/08/06 00:45	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/08/06 00:45	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/08/06 00:45	106-99-0	
2-Butanone (MEK)	17.6	ug/m3	0.94	1.57		12/08/06 00:45	78-93-3	SS
Carbon disulfide	3.4	ug/m3	0.99	1.57		12/08/06 00:45	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/08/06 00:45	56-23-5	SS
Chlorobenzene	ND	ug/m3	1.5	1.57		12/08/06 00:45	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/08/06 00:45	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/08/06 00:45	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/08/06 00:45	74-87-3	SS
Cyclohexane	4.2	ug/m3	1.1	1.57		12/08/06 00:45	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/08/06 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/08/06 00:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.6	1.57		12/08/06 00:45	75-71-8	SS
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 00:45	107-06-2	SS
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/08/06 00:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 00:45	10061-01-5	SS
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 00:45	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/08/06 00:45	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/08/06 00:45	141-78-6	SS
Ethylbenzene	11.2	ug/m3	1.4	1.57		12/08/06 00:45	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/08/06 00:45	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.57		12/08/06 00:45	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/08/06 00:45	87-68-3	
n-Hexane	6.5	ug/m3	1.1	1.57		12/08/06 00:45	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.57		12/08/06 00:45	591-78-6	SS
Methylene Chloride	ND	ug/m3	1.1	1.57		12/08/06 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/08/06 00:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/08/06 00:45	1634-04-4	SS
Naphthalene	ND	ug/m3	4.2	1.57		12/08/06 00:45	91-20-3	
Propylene	ND	ug/m3	0.55	1.57		12/08/06 00:45	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/08/06 00:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/08/06 00:45	79-34-5	
Tetrachloroethene	3.4	ug/m3	2.2	1.57		12/08/06 00:45	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/08/06 00:45	109-99-9	
Toluene	14.3	ug/m3	1.2	1.57		12/08/06 00:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/08/06 00:45	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-12 # 0900		Lab ID: 1042348020	Collected: 11/17/06 08:40	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 00:45	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 00:45	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/08/06 00:45	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/08/06 00:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/08/06 00:45	76-13-1	
1,2,4-Trimethylbenzene	5.1	ug/m3	3.9	1.57		12/08/06 00:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 00:45	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/08/06 00:45	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/08/06 00:45	75-01-4	
m&p-Xylene	17.0	ug/m3	2.8	1.57		12/08/06 00:45	1330-20-7	
o-Xylene	8.5	ug/m3	1.4	1.57		12/08/06 00:45	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-7 # 1174		Lab ID: 1042348021	Collected: 11/17/06 09:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	97.7	ug/m3	3.8	7.85		12/08/06 12:44	67-64-1	
Benzene	12.4	ug/m3	1.0	1.57		12/08/06 03:54	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/08/06 03:54	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/08/06 03:54	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/08/06 03:54	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/08/06 03:54	106-99-0	
2-Butanone (MEK)	51.2	ug/m3	0.94	1.57		12/08/06 03:54	78-93-3	SS
Carbon disulfide	4.0	ug/m3	0.99	1.57		12/08/06 03:54	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/08/06 03:54	56-23-5	SS
Chlorobenzene	ND	ug/m3	1.5	1.57		12/08/06 03:54	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/08/06 03:54	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/08/06 03:54	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/08/06 03:54	74-87-3	SS
Cyclohexane	13.2	ug/m3	1.1	1.57		12/08/06 03:54	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/08/06 03:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/08/06 03:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 03:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 03:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 03:54	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.6	1.57		12/08/06 03:54	75-71-8	SS
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 03:54	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 03:54	107-06-2	SS
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 03:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 03:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 03:54	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/08/06 03:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 03:54	10061-01-5	SS
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 03:54	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/08/06 03:54	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/08/06 03:54	141-78-6	SS
Ethylbenzene	9.0	ug/m3	1.4	1.57		12/08/06 03:54	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/08/06 03:54	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.57		12/08/06 03:54	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/08/06 03:54	87-68-3	
n-Hexane	17.2	ug/m3	1.1	1.57		12/08/06 03:54	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.57		12/08/06 03:54	591-78-6	SS
Methylene Chloride	1.9	ug/m3	1.1	1.57		12/08/06 03:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/08/06 03:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/08/06 03:54	1634-04-4	SS
Naphthalene	ND	ug/m3	4.2	1.57		12/08/06 03:54	91-20-3	
Propylene	41.5	ug/m3	2.7	7.85		12/08/06 12:44	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/08/06 03:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/08/06 03:54	79-34-5	
Tetrachloroethene	14.8	ug/m3	2.2	1.57		12/08/06 03:54	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/08/06 03:54	109-99-9	
Toluene	31.4	ug/m3	1.2	1.57		12/08/06 03:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/08/06 03:54	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-7 # 1174		Lab ID: 1042348021	Collected: 11/17/06 09:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 03:54	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 03:54	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/08/06 03:54	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/08/06 03:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/08/06 03:54	76-13-1	
1,2,4-Trimethylbenzene	6.3	ug/m3	3.9	1.57		12/08/06 03:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 03:54	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/08/06 03:54	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/08/06 03:54	75-01-4	
m&p-Xylene	14.7	ug/m3	2.8	1.57		12/08/06 03:54	1330-20-7	
o-Xylene	5.2	ug/m3	1.4	1.57		12/08/06 03:54	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-6 # 1000		Lab ID: 1042348022		Collected: 11/17/06 10:45		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	109	ug/m3	0.75	1.57		12/08/06 01:23	67-64-1	E	
Benzene	26.3	ug/m3	1.0	1.57		12/08/06 01:23	71-43-2		
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/08/06 01:23	75-27-4		
Bromoform	ND	ug/m3	3.3	1.57		12/08/06 01:23	75-25-2		
Bromomethane	ND	ug/m3	1.2	1.57		12/08/06 01:23	74-83-9		
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/08/06 01:23	106-99-0		
2-Butanone (MEK)	23.1	ug/m3	0.94	1.57		12/08/06 01:23	78-93-3	SS	
Carbon disulfide	5.9	ug/m3	0.99	1.57		12/08/06 01:23	75-15-0	SS	
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/08/06 01:23	56-23-5	SS	
Chlorobenzene	ND	ug/m3	1.5	1.57		12/08/06 01:23	108-90-7		
Chloroethane	ND	ug/m3	0.85	1.57		12/08/06 01:23	75-00-3		
Chloroform	ND	ug/m3	1.6	1.57		12/08/06 01:23	67-66-3		
Chloromethane	ND	ug/m3	0.66	1.57		12/08/06 01:23	74-87-3	SS	
Cyclohexane	6.9	ug/m3	1.1	1.57		12/08/06 01:23	110-82-7		
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/08/06 01:23	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/08/06 01:23	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 01:23	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 01:23	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 01:23	106-46-7		
Dichlorodifluoromethane	2.2	ug/m3	1.6	1.57		12/08/06 01:23	75-71-8	SS	
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 01:23	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 01:23	107-06-2	SS	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 01:23	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 01:23	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 01:23	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/08/06 01:23	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 01:23	10061-01-5	SS	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 01:23	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/08/06 01:23	76-14-2		
Ethyl acetate	ND	ug/m3	1.1	1.57		12/08/06 01:23	141-78-6	SS	
Ethylbenzene	14.3	ug/m3	1.4	1.57		12/08/06 01:23	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/08/06 01:23	622-96-8		
n-Heptane	66.4	ug/m3	1.3	1.57		12/08/06 01:23	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/08/06 01:23	87-68-3		
n-Hexane	51.6	ug/m3	1.1	1.57		12/08/06 01:23	110-54-3		
2-Hexanone	ND	ug/m3	1.3	1.57		12/08/06 01:23	591-78-6	SS	
Methylene Chloride	1.5	ug/m3	1.1	1.57		12/08/06 01:23	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/08/06 01:23	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/08/06 01:23	1634-04-4	SS	
Naphthalene	ND	ug/m3	4.2	1.57		12/08/06 01:23	91-20-3		
Propylene	52.4	ug/m3	0.55	1.57		12/08/06 01:23	115-07-1		
Styrene	2.0	ug/m3	1.4	1.57		12/08/06 01:23	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/08/06 01:23	79-34-5		
Tetrachloroethene	ND	ug/m3	2.2	1.57		12/08/06 01:23	127-18-4		
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/08/06 01:23	109-99-9		
Toluene	42.9	ug/m3	1.2	1.57		12/08/06 01:23	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/08/06 01:23	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-6 # 1000		Lab ID: 1042348022	Collected: 11/17/06 10:45	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 01:23	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 01:23	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/08/06 01:23	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/08/06 01:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/08/06 01:23	76-13-1	
1,2,4-Trimethylbenzene	4.8	ug/m3	3.9	1.57		12/08/06 01:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 01:23	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/08/06 01:23	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/08/06 01:23	75-01-4	
m&p-Xylene	12.9	ug/m3	2.8	1.57		12/08/06 01:23	1330-20-7	
o-Xylene	4.2	ug/m3	1.4	1.57		12/08/06 01:23	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-9 # 0874		Lab ID: 1042348023		Collected: 11/17/06 11:10		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	85.5	ug/m3	0.81	1.68		12/08/06 02:01	67-64-1	E	
Benzene	6.2	ug/m3	1.1	1.68		12/08/06 02:01	71-43-2		
Bromodichloromethane	ND	ug/m3	2.4	1.68		12/08/06 02:01	75-27-4		
Bromoform	ND	ug/m3	3.5	1.68		12/08/06 02:01	75-25-2		
Bromomethane	ND	ug/m3	1.3	1.68		12/08/06 02:01	74-83-9		
1,3-Butadiene	ND	ug/m3	0.76	1.68		12/08/06 02:01	106-99-0		
2-Butanone (MEK)	20.1	ug/m3	1.0	1.68		12/08/06 02:01	78-93-3	SS	
Carbon disulfide	2.2	ug/m3	1.1	1.68		12/08/06 02:01	75-15-0	SS	
Carbon tetrachloride	ND	ug/m3	2.2	1.68		12/08/06 02:01	56-23-5	SS	
Chlorobenzene	ND	ug/m3	1.6	1.68		12/08/06 02:01	108-90-7		
Chloroethane	ND	ug/m3	0.91	1.68		12/08/06 02:01	75-00-3		
Chloroform	ND	ug/m3	1.7	1.68		12/08/06 02:01	67-66-3		
Chloromethane	ND	ug/m3	0.71	1.68		12/08/06 02:01	74-87-3	SS	
Cyclohexane	5.1	ug/m3	1.1	1.68		12/08/06 02:01	110-82-7		
Dibromochloromethane	ND	ug/m3	2.9	1.68		12/08/06 02:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.7	1.68		12/08/06 02:01	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:01	106-46-7		
Dichlorodifluoromethane	3.7	ug/m3	1.7	1.68		12/08/06 02:01	75-71-8	SS	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 02:01	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 02:01	107-06-2	SS	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:01	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:01	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.6	1.68		12/08/06 02:01	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 02:01	10061-01-5	SS	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 02:01	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.4	1.68		12/08/06 02:01	76-14-2		
Ethyl acetate	ND	ug/m3	1.2	1.68		12/08/06 02:01	141-78-6	SS	
Ethylbenzene	7.5	ug/m3	1.5	1.68		12/08/06 02:01	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.2	1.68		12/08/06 02:01	622-96-8		
n-Heptane	21.7	ug/m3	1.4	1.68		12/08/06 02:01	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.7	1.68		12/08/06 02:01	87-68-3		
n-Hexane	12.0	ug/m3	1.2	1.68		12/08/06 02:01	110-54-3		
2-Hexanone	ND	ug/m3	1.4	1.68		12/08/06 02:01	591-78-6	SS	
Methylene Chloride	1.6	ug/m3	1.2	1.68		12/08/06 02:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	1.68		12/08/06 02:01	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.2	1.68		12/08/06 02:01	1634-04-4	SS	
Naphthalene	ND	ug/m3	4.5	1.68		12/08/06 02:01	91-20-3		
Propylene	40.5	ug/m3	0.59	1.68		12/08/06 02:01	115-07-1		
Styrene	ND	ug/m3	1.5	1.68		12/08/06 02:01	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.4	1.68		12/08/06 02:01	79-34-5		
Tetrachloroethene	11.4	ug/m3	2.4	1.68		12/08/06 02:01	127-18-4		
Tetrahydrofuran	ND	ug/m3	1.0	1.68		12/08/06 02:01	109-99-9		
Toluene	17.4	ug/m3	1.3	1.68		12/08/06 02:01	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.7	1.68		12/08/06 02:01	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-9 # 0874		Lab ID: 1042348023	Collected: 11/17/06 11:10	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 02:01	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 02:01	79-00-5	
Trichloroethene	ND	ug/m3	1.8	1.68		12/08/06 02:01	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.8	1.68		12/08/06 02:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	1.68		12/08/06 02:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 02:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 02:01	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	1.68		12/08/06 02:01	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	1.68		12/08/06 02:01	75-01-4	
m&p-Xylene	7.7	ug/m3	3.0	1.68		12/08/06 02:01	1330-20-7	
o-Xylene	3.6	ug/m3	1.5	1.68		12/08/06 02:01	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-11 # 1021		Lab ID: 1042348024	Collected: 11/17/06 11:40	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	71.5	ug/m3	0.81	1.68		12/08/06 02:39	67-64-1	
Benzene	4.8	ug/m3	1.1	1.68		12/08/06 02:39	71-43-2	
Bromodichloromethane	ND	ug/m3	2.4	1.68		12/08/06 02:39	75-27-4	
Bromoform	ND	ug/m3	3.5	1.68		12/08/06 02:39	75-25-2	
Bromomethane	ND	ug/m3	1.3	1.68		12/08/06 02:39	74-83-9	
1,3-Butadiene	ND	ug/m3	0.76	1.68		12/08/06 02:39	106-99-0	
2-Butanone (MEK)	16.5	ug/m3	1.0	1.68		12/08/06 02:39	78-93-3	SS
Carbon disulfide	5.5	ug/m3	1.1	1.68		12/08/06 02:39	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	2.2	1.68		12/08/06 02:39	56-23-5	SS
Chlorobenzene	ND	ug/m3	1.6	1.68		12/08/06 02:39	108-90-7	
Chloroethane	ND	ug/m3	0.91	1.68		12/08/06 02:39	75-00-3	
Chloroform	ND	ug/m3	1.7	1.68		12/08/06 02:39	67-66-3	
Chloromethane	ND	ug/m3	0.71	1.68		12/08/06 02:39	74-87-3	SS
Cyclohexane	4.5	ug/m3	1.1	1.68		12/08/06 02:39	110-82-7	
Dibromochloromethane	ND	ug/m3	2.9	1.68		12/08/06 02:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.7	1.68		12/08/06 02:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 02:39	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.7	1.68		12/08/06 02:39	75-71-8	SS
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 02:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 02:39	107-06-2	SS
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 02:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.6	1.68		12/08/06 02:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 02:39	10061-01-5	SS
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 02:39	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.4	1.68		12/08/06 02:39	76-14-2	
Ethyl acetate	ND	ug/m3	1.2	1.68		12/08/06 02:39	141-78-6	SS
Ethylbenzene	9.6	ug/m3	1.5	1.68		12/08/06 02:39	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.2	1.68		12/08/06 02:39	622-96-8	
n-Heptane	ND	ug/m3	1.4	1.68		12/08/06 02:39	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.7	1.68		12/08/06 02:39	87-68-3	
n-Hexane	6.5	ug/m3	1.2	1.68		12/08/06 02:39	110-54-3	
2-Hexanone	ND	ug/m3	1.4	1.68		12/08/06 02:39	591-78-6	SS
Methylene Chloride	ND	ug/m3	1.2	1.68		12/08/06 02:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	1.68		12/08/06 02:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	1.68		12/08/06 02:39	1634-04-4	SS
Naphthalene	ND	ug/m3	4.5	1.68		12/08/06 02:39	91-20-3	
Propylene	ND	ug/m3	0.59	1.68		12/08/06 02:39	115-07-1	
Styrene	ND	ug/m3	1.5	1.68		12/08/06 02:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.4	1.68		12/08/06 02:39	79-34-5	
Tetrachloroethene	3.3	ug/m3	2.4	1.68		12/08/06 02:39	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.0	1.68		12/08/06 02:39	109-99-9	
Toluene	16.0	ug/m3	1.3	1.68		12/08/06 02:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.7	1.68		12/08/06 02:39	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-11 # 1021		Lab ID: 1042348024	Collected: 11/17/06 11:40	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 02:39	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 02:39	79-00-5	
Trichloroethene	ND	ug/m3	1.8	1.68		12/08/06 02:39	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.8	1.68		12/08/06 02:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	1.68		12/08/06 02:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 02:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 02:39	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	1.68		12/08/06 02:39	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	1.68		12/08/06 02:39	75-01-4	
m&p-Xylene	6.8	ug/m3	3.0	1.68		12/08/06 02:39	1330-20-7	
o-Xylene	3.0	ug/m3	1.5	1.68		12/08/06 02:39	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-8 # 0876		Lab ID: 1042348025		Collected: 11/17/06 12:10		Received: 11/20/06 13:05		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	63.5	ug/m3	0.81	1.68		12/08/06 03:16	67-64-1		
Benzene	5.7	ug/m3	1.1	1.68		12/08/06 03:16	71-43-2		
Bromodichloromethane	ND	ug/m3	2.4	1.68		12/08/06 03:16	75-27-4		
Bromoform	ND	ug/m3	3.5	1.68		12/08/06 03:16	75-25-2		
Bromomethane	ND	ug/m3	1.3	1.68		12/08/06 03:16	74-83-9		
1,3-Butadiene	ND	ug/m3	0.76	1.68		12/08/06 03:16	106-99-0		
2-Butanone (MEK)	13.9	ug/m3	1.0	1.68		12/08/06 03:16	78-93-3	SS	
Carbon disulfide	2.8	ug/m3	1.1	1.68		12/08/06 03:16	75-15-0	SS	
Carbon tetrachloride	ND	ug/m3	2.2	1.68		12/08/06 03:16	56-23-5		
Chlorobenzene	ND	ug/m3	1.6	1.68		12/08/06 03:16	108-90-7		
Chloroethane	ND	ug/m3	0.91	1.68		12/08/06 03:16	75-00-3		
Chloroform	ND	ug/m3	1.7	1.68		12/08/06 03:16	67-66-3		
Chloromethane	ND	ug/m3	0.71	1.68		12/08/06 03:16	74-87-3	SS	
Cyclohexane	4.9	ug/m3	1.1	1.68		12/08/06 03:16	110-82-7		
Dibromochloromethane	ND	ug/m3	2.9	1.68		12/08/06 03:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	2.7	1.68		12/08/06 03:16	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 03:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 03:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	2.0	1.68		12/08/06 03:16	106-46-7		
Dichlorodifluoromethane	1.8	ug/m3	1.7	1.68		12/08/06 03:16	75-71-8	SS	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 03:16	75-34-3		
1,2-Dichloroethane	ND	ug/m3	1.4	1.68		12/08/06 03:16	107-06-2	SS	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 03:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 03:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/08/06 03:16	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.6	1.68		12/08/06 03:16	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 03:16	10061-01-5	SS	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.68		12/08/06 03:16	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.4	1.68		12/08/06 03:16	76-14-2		
Ethyl acetate	ND	ug/m3	1.2	1.68		12/08/06 03:16	141-78-6	SS	
Ethylbenzene	8.3	ug/m3	1.5	1.68		12/08/06 03:16	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.2	1.68		12/08/06 03:16	622-96-8		
n-Heptane	5.1	ug/m3	1.4	1.68		12/08/06 03:16	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	3.7	1.68		12/08/06 03:16	87-68-3		
n-Hexane	8.0	ug/m3	1.2	1.68		12/08/06 03:16	110-54-3		
2-Hexanone	ND	ug/m3	1.4	1.68		12/08/06 03:16	591-78-6	SS	
Methylene Chloride	1.8	ug/m3	1.2	1.68		12/08/06 03:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	1.68		12/08/06 03:16	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	1.2	1.68		12/08/06 03:16	1634-04-4	SS	
Naphthalene	ND	ug/m3	4.5	1.68		12/08/06 03:16	91-20-3		
Propylene	ND	ug/m3	0.59	1.68		12/08/06 03:16	115-07-1		
Styrene	ND	ug/m3	1.5	1.68		12/08/06 03:16	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.4	1.68		12/08/06 03:16	79-34-5		
Tetrachloroethene	ND	ug/m3	2.4	1.68		12/08/06 03:16	127-18-4		
Tetrahydrofuran	ND	ug/m3	1.0	1.68		12/08/06 03:16	109-99-9		
Toluene	15.4	ug/m3	1.3	1.68		12/08/06 03:16	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	1.7	1.68		12/08/06 03:16	120-82-1		

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: SVP-8 # 0876		Lab ID: 1042348025	Collected: 11/17/06 12:10	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 03:16	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.8	1.68		12/08/06 03:16	79-00-5	
Trichloroethene	ND	ug/m3	1.8	1.68		12/08/06 03:16	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.8	1.68		12/08/06 03:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	1.68		12/08/06 03:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 03:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4.2	1.68		12/08/06 03:16	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	1.68		12/08/06 03:16	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	1.68		12/08/06 03:16	75-01-4	
m&p-Xylene	6.1	ug/m3	3.0	1.68		12/08/06 03:16	1330-20-7	
o-Xylene	2.7	ug/m3	1.5	1.68		12/08/06 03:16	95-47-6	

ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 0921		Lab ID: 1042348026	Collected: 11/17/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	59.8	ug/m3	0.75	1.57		12/08/06 05:14	67-64-1	
Benzene	5.9	ug/m3	1.0	1.57		12/08/06 05:14	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.57		12/08/06 05:14	75-27-4	
Bromoform	ND	ug/m3	3.3	1.57		12/08/06 05:14	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.57		12/08/06 05:14	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.57		12/08/06 05:14	106-99-0	
2-Butanone (MEK)	15.5	ug/m3	0.94	1.57		12/08/06 05:14	78-93-3	SS
Carbon disulfide	3.7	ug/m3	0.99	1.57		12/08/06 05:14	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	2.0	1.57		12/08/06 05:14	56-23-5	SS
Chlorobenzene	ND	ug/m3	1.5	1.57		12/08/06 05:14	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.57		12/08/06 05:14	75-00-3	
Chloroform	ND	ug/m3	1.6	1.57		12/08/06 05:14	67-66-3	
Chloromethane	ND	ug/m3	0.66	1.57		12/08/06 05:14	74-87-3	SS
Cyclohexane	4.0	ug/m3	1.1	1.57		12/08/06 05:14	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.57		12/08/06 05:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.57		12/08/06 05:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 05:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 05:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.57		12/08/06 05:14	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.6	1.57		12/08/06 05:14	75-71-8	SS
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 05:14	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.57		12/08/06 05:14	107-06-2	SS
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 05:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 05:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/08/06 05:14	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.57		12/08/06 05:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 05:14	10061-01-5	SS
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.57		12/08/06 05:14	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.57		12/08/06 05:14	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.57		12/08/06 05:14	141-78-6	SS
Ethylbenzene	4.2	ug/m3	1.4	1.57		12/08/06 05:14	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.57		12/08/06 05:14	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.57		12/08/06 05:14	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.57		12/08/06 05:14	87-68-3	
n-Hexane	5.0	ug/m3	1.1	1.57		12/08/06 05:14	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.57		12/08/06 05:14	591-78-6	SS
Methylene Chloride	ND	ug/m3	1.1	1.57		12/08/06 05:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.57		12/08/06 05:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.57		12/08/06 05:14	1634-04-4	SS
Naphthalene	ND	ug/m3	4.2	1.57		12/08/06 05:14	91-20-3	
Propylene	34.4	ug/m3	0.55	1.57		12/08/06 05:14	115-07-1	
Styrene	ND	ug/m3	1.4	1.57		12/08/06 05:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.57		12/08/06 05:14	79-34-5	
Tetrachloroethene	ND	ug/m3	2.2	1.57		12/08/06 05:14	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.94	1.57		12/08/06 05:14	109-99-9	
Toluene	11.8	ug/m3	1.2	1.57		12/08/06 05:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	1.57		12/08/06 05:14	120-82-1	

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ANALYTICAL RESULTS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

Sample: DUPLICATE # 0921		Lab ID: 1042348026	Collected: 11/17/06 00:00	Received: 11/20/06 13:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 05:14	71-55-6	SS
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.57		12/08/06 05:14	79-00-5	
Trichloroethene	ND	ug/m3	1.7	1.57		12/08/06 05:14	79-01-6	SS
Trichlorofluoromethane	ND	ug/m3	1.7	1.57		12/08/06 05:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.57		12/08/06 05:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 05:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.9	1.57		12/08/06 05:14	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.57		12/08/06 05:14	108-05-4	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/08/06 05:14	75-01-4	
m&p-Xylene	5.0	ug/m3	2.8	1.57		12/08/06 05:14	1330-20-7	
o-Xylene	2.0	ug/m3	1.4	1.57		12/08/06 05:14	95-47-6	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

QC Batch: AIR/4899

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 1042348017, 1042348020, 1042348021, 1042348022, 1042348023, 1042348024, 1042348025, 1042348026

METHOD BLANK: 290090

Associated Lab Samples: 1042348017, 1042348020, 1042348021, 1042348022, 1042348023, 1042348024, 1042348025, 1042348026

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	SS
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	
1,1,2-Trichloroethane	ug/m3	ND	1.1	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	
1,1-Dichloroethane	ug/m3	ND	0.82	
1,1-Dichloroethene	ug/m3	ND	0.81	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	
1,2-Dichlorobenzene	ug/m3	ND	1.2	
1,2-Dichloroethane	ug/m3	ND	0.82	SS
1,2-Dichloropropane	ug/m3	ND	0.94	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	
1,3-Butadiene	ug/m3	ND	0.45	
1,3-Dichlorobenzene	ug/m3	ND	1.2	
1,4-Dichlorobenzene	ug/m3	ND	1.2	
2-Butanone (MEK)	ug/m3	ND	0.60	SS
2-Hexanone	ug/m3	ND	0.83	SS
4-Ethyltoluene	ug/m3	ND	2.5	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	
Acetone	ug/m3	ND	0.48	
Benzene	ug/m3	ND	0.65	
Bromodichloromethane	ug/m3	ND	1.4	
Bromoform	ug/m3	ND	2.1	
Bromomethane	ug/m3	ND	0.79	
Carbon disulfide	ug/m3	ND	0.63	SS
Carbon tetrachloride	ug/m3	ND	1.3	SS
Chlorobenzene	ug/m3	ND	0.94	
Chloroethane	ug/m3	ND	0.54	
Chloroform	ug/m3	ND	0.99	
Chloromethane	ug/m3	ND	0.42	SS
cis-1,2-Dichloroethene	ug/m3	ND	0.81	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	SS
Cyclohexane	ug/m3	ND	0.68	
Dibromochloromethane	ug/m3	ND	1.7	
Dichlorodifluoromethane	ug/m3	ND	1.0	SS
Dichlorotetrafluoroethane	ug/m3	ND	1.4	
Ethyl acetate	ug/m3	ND	0.73	SS
Ethylbenzene	ug/m3	ND	0.88	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	
m&p-Xylene	ug/m3	ND	1.8	
Methyl-tert-butyl ether	ug/m3	ND	0.73	SS
Methylene Chloride	ug/m3	ND	0.71	

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

METHOD BLANK: 290090

Associated Lab Samples: 1042348017, 1042348020, 1042348021, 1042348022, 1042348023, 1042348024, 1042348025, 1042348026

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
n-Heptane	ug/m3	ND	0.83	
n-Hexane	ug/m3	ND	0.72	
Naphthalene	ug/m3	ND	2.7	
o-Xylene	ug/m3	ND	0.88	
Propylene	ug/m3	ND	0.35	
Styrene	ug/m3	ND	0.87	
Tetrachloroethene	ug/m3	ND	1.4	
Tetrahydrofuran	ug/m3	ND	0.60	
Toluene	ug/m3	ND	0.77	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	
Trichloroethene	ug/m3	ND	1.1	SS
Trichlorofluoromethane	ug/m3	ND	1.1	
Vinyl acetate	ug/m3	ND	0.71	
Vinyl chloride	ug/m3	ND	0.52	

LABORATORY CONTROL SAMPLE: 290091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58.3	36.7	63	60-134	
1,1,2,2-Tetrachloroethane	ug/m3	74	65.7	89	55-141	
1,1,2-Trichloroethane	ug/m3	59.4	49.7	84	64-129	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	73.3	90	55-137	
1,1-Dichloroethane	ug/m3	43.6	34.0	78	59-136	
1,1-Dichloroethene	ug/m3	41.9	28.9	69	60-137	
1,2,4-Trichlorobenzene	ug/m3	80.6	73.6	91	50-150	
1,2,4-Trimethylbenzene	ug/m3	53	46.0	87	63-137	
1,2-Dibromoethane (EDB)	ug/m3	82.8	70.9	86	61-136	
1,2-Dichlorobenzene	ug/m3	64.8	55.0	85	60-139	
1,2-Dichloroethane	ug/m3	43.6	28.5	65	56-141	
1,2-Dichloropropane	ug/m3	49.4	35.4	72	57-131	
1,3,5-Trimethylbenzene	ug/m3	52.5	45.2	86	61-134	
1,3-Butadiene	ug/m3	24.3	16.8	69	53-140	
1,3-Dichlorobenzene	ug/m3	67.3	55.9	83	59-136	
1,4-Dichlorobenzene	ug/m3	64.2	53.5	83	59-130	
2-Butanone (MEK)	ug/m3	32.4	17.8	55	54-133	
2-Hexanone	ug/m3	45.8	40.8	89	54-139	
4-Ethyltoluene	ug/m3	55	63.2	115	61-138	
4-Methyl-2-pentanone (MIBK)	ug/m3	45.8	29.0	63	53-139	
Acetone	ug/m3	24.4	26.0	107	50-139	
Benzene	ug/m3	34.4	42.0	122	64-125	
Bromodichloromethane	ug/m3	70.9	55.3	78	61-131	
Bromoform	ug/m3	110	121	109	66-138	
Bromomethane	ug/m3	40.3	29.3	73	55-135	
Carbon disulfide	ug/m3	33.3	20.2	61	50-150	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

LABORATORY CONTROL SAMPLE: 290091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/m3	67.8	44.4	66	58-135	
Chlorobenzene	ug/m3	49.6	39.0	79	62-139	
Chloroethane	ug/m3	27.1	22.7	84	56-140	
Chloroform	ug/m3	48.7	33.3	68	50-150	
Chloromethane	ug/m3	21	14.2	67	56-144	
cis-1,2-Dichloroethene	ug/m3	42.7	34.4	80	62-135	
cis-1,3-Dichloropropene	ug/m3	48.9	33.2	68	64-133	
Cyclohexane	ug/m3	35.7	35.1	98	54-139	
Dibromochloromethane	ug/m3	95.3	82.2	86	50-150	
Dichlorodifluoromethane	ug/m3	50.8	34.1	67	60-130	
Dichlorotetrafluoroethane	ug/m3	71.8	54.8	76	59-130	
Ethyl acetate	ug/m3	35.9	21.0	58	60-132	2M
Ethylbenzene	ug/m3	46.4	37.7	81	65-140	
Hexachloro-1,3-butadiene	ug/m3	115	164	143	50-150	
m&p-Xylene	ug/m3	92.7	79.3	86	60-132	
Methyl-tert-butyl ether	ug/m3	38.1	26.4	69	50-150	
Methylene Chloride	ug/m3	37.1	30.2	81	56-138	
n-Heptane	ug/m3	43.3	47.2	109	62-135	
n-Hexane	ug/m3	35.8	57.4	160	62-134	L3
Naphthalene	ug/m3	55.3	51.5	93	70-130	
o-Xylene	ug/m3	46.8	41.4	89	64-132	
Propylene	ug/m3	18.4	10.0	54	56-125	3M
Styrene	ug/m3	45.9	43.0	94	69-134	
Tetrachloroethene	ug/m3	67.6	54.9	81	60-137	
Tetrahydrofuran	ug/m3	31.5	63.6	202	52-139	L3
Toluene	ug/m3	41	43.7	107	69-130	
trans-1,2-Dichloroethene	ug/m3	39.9	31.8	80	50-150	
trans-1,3-Dichloropropene	ug/m3	50.8	47.0	93	70-142	
Trichloroethene	ug/m3	56.8	39.7	70	60-134	
Trichlorofluoromethane	ug/m3	57.7	50.5	88	56-141	
Vinyl acetate	ug/m3	38.3	29.1	76	61-142	
Vinyl chloride	ug/m3	26.3	18.5	70	66-132	

SAMPLE DUPLICATE: 292298

Parameter	Units	1042828002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND	0	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND	0	
1,1,2-Trichloroethane	ug/m3	ND	ND	0	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	0	
1,1-Dichloroethane	ug/m3	ND	ND	0	
1,1-Dichloroethene	ug/m3	ND	ND	0	
1,2,4-Trichlorobenzene	ug/m3	ND	ND	0	
1,2,4-Trimethylbenzene	ug/m3	ND	ND	0	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND	0	
1,2-Dichlorobenzene	ug/m3	ND	ND	0	
1,2-Dichloroethane	ug/m3	ND	ND	0	

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 292298

Parameter	Units	1042828002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/m3	ND	ND	0	
1,3,5-Trimethylbenzene	ug/m3	ND	ND	0	
1,3-Butadiene	ug/m3	1.9	1.8	3	
1,3-Dichlorobenzene	ug/m3	ND	ND	0	
1,4-Dichlorobenzene	ug/m3	ND	ND	0	
2-Butanone (MEK)	ug/m3	1.6	1.4	17	
2-Hexanone	ug/m3	ND	ND	0	
4-Ethyltoluene	ug/m3	ND	ND	0	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND	0	
Acetone	ug/m3	9.9	7.9	23	
Benzene	ug/m3	ND	ND	0	
Bromodichloromethane	ug/m3	ND	ND	0	
Bromoform	ug/m3	ND	ND	0	
Bromomethane	ug/m3	ND	ND	0	
Carbon disulfide	ug/m3	ND	ND	0	
Carbon tetrachloride	ug/m3	ND	ND	0	
Chlorobenzene	ug/m3	ND	ND	0	
Chloroethane	ug/m3	ND	ND	0	
Chloroform	ug/m3	ND	ND	0	
Chloromethane	ug/m3	ND	ND	0	
cis-1,2-Dichloroethene	ug/m3	ND	ND	0	
cis-1,3-Dichloropropene	ug/m3	ND	ND	0	
Cyclohexane	ug/m3	ND	ND	0	
Dibromochloromethane	ug/m3	ND	ND	0	
Dichlorodifluoromethane	ug/m3	2.3	2.1	10	
Dichlorotetrafluoroethane	ug/m3	ND	ND	0	
Ethyl acetate	ug/m3	ND	ND	0	
Ethylbenzene	ug/m3	ND	ND	0	
Hexachloro-1,3-butadiene	ug/m3	ND	ND	0	
m&p-Xylene	ug/m3	ND	ND	0	
Methyl-tert-butyl ether	ug/m3	ND	ND	0	
Methylene Chloride	ug/m3	ND	ND	0	
n-Heptane	ug/m3	ND	ND	0	
n-Hexane	ug/m3	ND	ND	0	
Naphthalene	ug/m3	ND	ND	0	
o-Xylene	ug/m3	ND	ND	0	
Propylene	ug/m3	ND	ND	0	
Styrene	ug/m3	1.1	.83J	31	D6
Tetrachloroethene	ug/m3	ND	ND	0	
Tetrahydrofuran	ug/m3	ND	ND	0	
Toluene	ug/m3	1.7	1.6	5	
trans-1,2-Dichloroethene	ug/m3	ND	ND	0	
trans-1,3-Dichloropropene	ug/m3	ND	ND	0	
Trichloroethene	ug/m3	ND	ND	0	
Trichlorofluoromethane	ug/m3	ND	ND	0	
Vinyl acetate	ug/m3	ND	ND	0	
Vinyl chloride	ug/m3	ND	ND	0	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 292299

Parameter	Units	1042348021 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND	0	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND	0	
1,1,2-Trichloroethane	ug/m3	ND	ND	0	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	0	
1,1-Dichloroethane	ug/m3	ND	ND	0	
1,1-Dichloroethene	ug/m3	ND	ND	0	
1,2,4-Trichlorobenzene	ug/m3	ND	ND	0	
1,2,4-Trimethylbenzene	ug/m3	6.3	5.2	20	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND	0	
1,2-Dichlorobenzene	ug/m3	ND	ND	0	
1,2-Dichloroethane	ug/m3	ND	ND	0	
1,2-Dichloropropane	ug/m3	ND	ND	0	
1,3,5-Trimethylbenzene	ug/m3	ND	ND	6	
1,3-Butadiene	ug/m3	ND	ND	0	
1,3-Dichlorobenzene	ug/m3	ND	ND	0	
1,4-Dichlorobenzene	ug/m3	ND	ND	0	
2-Butanone (MEK)	ug/m3	51.2	42.1	19	
2-Hexanone	ug/m3	ND	ND	0	
4-Ethyltoluene	ug/m3	ND	2.6J	20	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND	0	
Acetone	ug/m3	97.7	184	61	D6,E
Benzene	ug/m3	12.4	10.2	19	
Bromodichloromethane	ug/m3	ND	ND	0	
Bromoform	ug/m3	ND	ND	0	
Bromomethane	ug/m3	ND	ND	0	
Carbon disulfide	ug/m3	4.0	3.1	25	
Carbon tetrachloride	ug/m3	ND	ND	0	
Chlorobenzene	ug/m3	ND	ND	0	
Chloroethane	ug/m3	ND	ND	0	
Chloroform	ug/m3	ND	ND	0	
Chloromethane	ug/m3	ND	ND	0	
cis-1,2-Dichloroethene	ug/m3	ND	ND	0	
cis-1,3-Dichloropropene	ug/m3	ND	ND	0	
Cyclohexane	ug/m3	13.2	11.3	15	
Dibromochloromethane	ug/m3	ND	ND	0	
Dichlorodifluoromethane	ug/m3	1.8	1.7	7	
Dichlorotetrafluoroethane	ug/m3	ND	ND	0	
Ethyl acetate	ug/m3	ND	ND	0	
Ethylbenzene	ug/m3	9.0	7.6	16	
Hexachloro-1,3-butadiene	ug/m3	ND	ND	0	
m&p-Xylene	ug/m3	14.7	12.6	16	
Methyl-tert-butyl ether	ug/m3	ND	ND	0	
Methylene Chloride	ug/m3	1.9	1.9	.02	
n-Heptane	ug/m3	ND	ND	0	
n-Hexane	ug/m3	17.2	14.3	19	
Naphthalene	ug/m3	ND	ND	0	
o-Xylene	ug/m3	5.2	4.4	16	
Propylene	ug/m3	41.5	94.3	78	D6,E

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 292299

Parameter	Units	1042348021 Result	Dup Result	RPD	Qualifiers
Styrene	ug/m3	ND	ND	0	
Tetrachloroethene	ug/m3	14.8	12.6	16	
Tetrahydrofuran	ug/m3	ND	ND	0	
Toluene	ug/m3	31.4	27.0	15	
trans-1,2-Dichloroethene	ug/m3	ND	ND	0	
trans-1,3-Dichloropropene	ug/m3	ND	ND	0	
Trichloroethene	ug/m3	ND	ND	0	
Trichlorofluoromethane	ug/m3	ND	ND	0	
Vinyl acetate	ug/m3	ND	ND	0	
Vinyl chloride	ug/m3	ND	ND	0	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

QC Batch: AIR/4915

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 1042348001, 1042348002, 1042348003, 1042348004, 1042348005, 1042348006, 1042348007

METHOD BLANK: 291226

Associated Lab Samples: 1042348001, 1042348002, 1042348003, 1042348004, 1042348005, 1042348006, 1042348007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	
1,1,2-Trichloroethane	ug/m3	ND	1.1	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	
1,1-Dichloroethane	ug/m3	ND	0.82	
1,1-Dichloroethene	ug/m3	ND	0.81	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	
1,2-Dichlorobenzene	ug/m3	ND	1.2	
1,2-Dichloroethane	ug/m3	ND	0.82	
1,2-Dichloropropane	ug/m3	ND	0.94	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	
1,3-Butadiene	ug/m3	ND	0.45	
1,3-Dichlorobenzene	ug/m3	ND	1.2	
1,4-Dichlorobenzene	ug/m3	ND	1.2	
2-Butanone (MEK)	ug/m3	ND	0.60	
2-Hexanone	ug/m3	ND	0.83	
4-Ethyltoluene	ug/m3	ND	2.5	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	
Acetone	ug/m3	ND	0.48	
Benzene	ug/m3	ND	0.65	
Bromodichloromethane	ug/m3	ND	1.4	
Bromoform	ug/m3	ND	2.1	
Bromomethane	ug/m3	ND	0.79	
Carbon disulfide	ug/m3	ND	0.63	
Carbon tetrachloride	ug/m3	ND	1.3	
Chlorobenzene	ug/m3	ND	0.94	
Chloroethane	ug/m3	ND	0.54	
Chloroform	ug/m3	ND	0.99	
Chloromethane	ug/m3	ND	0.42	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	
Cyclohexane	ug/m3	ND	0.68	
Dibromochloromethane	ug/m3	ND	1.7	
Dichlorodifluoromethane	ug/m3	ND	1.0	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	
Ethyl acetate	ug/m3	ND	0.73	
Ethylbenzene	ug/m3	ND	0.88	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	
m&p-Xylene	ug/m3	ND	1.8	
Methyl-tert-butyl ether	ug/m3	ND	0.73	
Methylene Chloride	ug/m3	ND	0.71	

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

METHOD BLANK: 291226

Associated Lab Samples: 1042348001, 1042348002, 1042348003, 1042348004, 1042348005, 1042348006, 1042348007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
n-Heptane	ug/m3	ND	0.83	
n-Hexane	ug/m3	ND	0.72	
Naphthalene	ug/m3	ND	2.7	
o-Xylene	ug/m3	ND	0.88	
Propylene	ug/m3	ND	0.35	
Styrene	ug/m3	ND	0.87	
Tetrachloroethene	ug/m3	ND	1.4	
Tetrahydrofuran	ug/m3	ND	0.60	
Toluene	ug/m3	ND	0.77	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	
Trichloroethene	ug/m3	ND	1.1	
Trichlorofluoromethane	ug/m3	ND	1.1	
Vinyl acetate	ug/m3	ND	0.71	
Vinyl chloride	ug/m3	ND	0.52	

LABORATORY CONTROL SAMPLE: 291227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58.3	54.9	94	60-134	
1,1,2,2-Tetrachloroethane	ug/m3	74	77.6	105	55-141	
1,1,2-Trichloroethane	ug/m3	59.4	57.3	96	64-129	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	76.1	93	55-137	SS
1,1-Dichloroethane	ug/m3	43.6	41.3	95	59-136	
1,1-Dichloroethene	ug/m3	41.9	36.8	88	60-137	
1,2,4-Trichlorobenzene	ug/m3	80.6	84.3	105	50-150	SS
1,2,4-Trimethylbenzene	ug/m3	53	60.5	114	63-137	
1,2-Dibromoethane (EDB)	ug/m3	82.8	85.7	103	61-136	
1,2-Dichlorobenzene	ug/m3	64.8	69.4	107	60-139	
1,2-Dichloroethane	ug/m3	43.6	42.5	97	56-141	
1,2-Dichloropropane	ug/m3	49.4	51.0	103	57-131	
1,3,5-Trimethylbenzene	ug/m3	52.5	60.2	115	61-134	
1,3-Butadiene	ug/m3	24.3	21.3	88	53-140	
1,3-Dichlorobenzene	ug/m3	67.3	70.1	104	59-136	
1,4-Dichlorobenzene	ug/m3	64.2	67.6	105	59-130	
2-Butanone (MEK)	ug/m3	32.4	31.8	98	54-133	
2-Hexanone	ug/m3	45.8	37.6	82	54-139	
4-Ethyltoluene	ug/m3	55	61.3	111	61-138	SS
4-Methyl-2-pentanone (MIBK)	ug/m3	45.8	39.8	87	53-139	
Acetone	ug/m3	24.4	25.4	104	50-139	SS
Benzene	ug/m3	34.4	29.8	86	64-125	SS
Bromodichloromethane	ug/m3	70.9	74.8	105	61-131	
Bromoform	ug/m3	110	129	117	66-138	SS
Bromomethane	ug/m3	40.3	38.8	96	55-135	
Carbon disulfide	ug/m3	33.3	31.1	94	50-150	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

LABORATORY CONTROL SAMPLE: 291227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/m3	67.8	62.8	93	58-135	
Chlorobenzene	ug/m3	49.6	48.5	98	62-139	
Chloroethane	ug/m3	27.1	24.5	90	56-140	
Chloroform	ug/m3	48.7	46.0	95	50-150	
Chloromethane	ug/m3	21	18.6	88	56-144	
cis-1,2-Dichloroethene	ug/m3	42.7	42.6	100	62-135	
cis-1,3-Dichloropropene	ug/m3	48.9	53.7	110	64-133	
Cyclohexane	ug/m3	35.7	29.2	82	54-139	
Dibromochloromethane	ug/m3	95.3	95.8	101	50-150	
Dichlorodifluoromethane	ug/m3	50.8	48.0	95	60-130	
Dichlorotetrafluoroethane	ug/m3	71.8	67.5	94	59-130	SS
Ethyl acetate	ug/m3	35.9	38.7	108	60-132	
Ethylbenzene	ug/m3	46.4	50.9	110	65-140	
Hexachloro-1,3-butadiene	ug/m3	115	119	104	50-150	
m&p-Xylene	ug/m3	92.7	99.3	107	60-132	
Methyl-tert-butyl ether	ug/m3	38.1	38.9	102	50-150	
Methylene Chloride	ug/m3	37.1	34.4	93	56-138	SS
n-Heptane	ug/m3	43.3	36.0	83	62-135	
n-Hexane	ug/m3	35.8	36.3	101	62-134	SS
Naphthalene	ug/m3	55.3	57.4	104	70-130	SS
o-Xylene	ug/m3	46.8	51.8	111	64-132	
Propylene	ug/m3	18.4	15.1	82	56-125	
Styrene	ug/m3	45.9	54.0	118	69-134	
Tetrachloroethene	ug/m3	67.6	68.5	101	60-137	
Tetrahydrofuran	ug/m3	31.5	28.1	89	52-139	SS
Toluene	ug/m3	41	33.5	82	69-130	
trans-1,2-Dichloroethene	ug/m3	39.9	41.9	105	50-150	
trans-1,3-Dichloropropene	ug/m3	50.8	57.7	114	70-142	
Trichloroethene	ug/m3	56.8	56.6	100	60-134	
Trichlorofluoromethane	ug/m3	57.7	52.7	91	56-141	
Vinyl acetate	ug/m3	38.3	46.0	120	61-142	
Vinyl chloride	ug/m3	26.3	24.7	94	66-132	

SAMPLE DUPLICATE: 291229

Parameter	Units	1042472004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND	0	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND	0	
1,1,2-Trichloroethane	ug/m3	ND	ND	0	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	0	
1,1-Dichloroethane	ug/m3	ND	ND	0	
1,1-Dichloroethene	ug/m3	ND	ND	0	
1,2,4-Trichlorobenzene	ug/m3	ND	ND	0	
1,2,4-Trimethylbenzene	ug/m3	24.0	30.1	22	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND	0	
1,2-Dichlorobenzene	ug/m3	ND	ND	0	
1,2-Dichloroethane	ug/m3	ND	ND	0	

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 291229

Parameter	Units	1042472004 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/m3	ND	ND	0	
1,3,5-Trimethylbenzene	ug/m3	5.5	7.0	25	
1,3-Butadiene	ug/m3	ND	ND	0	
1,3-Dichlorobenzene	ug/m3	ND	ND	0	
1,4-Dichlorobenzene	ug/m3	ND	ND	0	
2-Butanone (MEK)	ug/m3	17.3	22.6	27	D6
2-Hexanone	ug/m3	3.2	3.8	17	
4-Ethyltoluene	ug/m3	8.0	10.3	25	1M
4-Methyl-2-pentanone (MIBK)	ug/m3	1.1	1.4	24	
Acetone	ug/m3	61.5	90.2	38	1M,D6,E
Benzene	ug/m3	12.3	14.6	17	1M
Bromodichloromethane	ug/m3	ND	ND	0	
Bromoform	ug/m3	ND	ND	0	
Bromomethane	ug/m3	ND	ND	0	
Carbon disulfide	ug/m3	3.1	4.4	34	D6
Carbon tetrachloride	ug/m3	ND	ND	0	
Chlorobenzene	ug/m3	ND	ND	0	
Chloroethane	ug/m3	ND	ND	0	
Chloroform	ug/m3	ND	ND	0	
Chloromethane	ug/m3	ND	ND	0	
cis-1,2-Dichloroethene	ug/m3	ND	ND	0	
cis-1,3-Dichloropropene	ug/m3	ND	ND	0	
Cyclohexane	ug/m3	6.0	7.1	17	
Dibromochloromethane	ug/m3	ND	ND	0	
Dichlorodifluoromethane	ug/m3	4.3	5.4	23	
Dichlorotetrafluoroethane	ug/m3	ND	ND	0	
Ethyl acetate	ug/m3	ND	ND	0	
Ethylbenzene	ug/m3	5.7	7.0	21	
Hexachloro-1,3-butadiene	ug/m3	ND	ND	0	
m&p-Xylene	ug/m3	25.7	31.5	20	
Methyl-tert-butyl ether	ug/m3	ND	ND	0	
Methylene Chloride	ug/m3	ND	ND	0	
n-Heptane	ug/m3	6.6	7.8	17	
n-Hexane	ug/m3	16.3	20.3	22	1M
Naphthalene	ug/m3	13.9	17.1	20	1M
o-Xylene	ug/m3	9.3	11.5	21	
Propylene	ug/m3	25.6	31.4	20	
Styrene	ug/m3	ND	ND	0	
Tetrachloroethene	ug/m3	1.9	1.9	.2	
Tetrahydrofuran	ug/m3	ND	ND	0	
Toluene	ug/m3	25.0	30.1	19	
trans-1,2-Dichloroethene	ug/m3	ND	ND	0	
trans-1,3-Dichloropropene	ug/m3	ND	ND	0	
Trichloroethene	ug/m3	ND	ND	0	
Trichlorofluoromethane	ug/m3	9.8	14.4	38	D6
Vinyl acetate	ug/m3	ND	ND	0	
Vinyl chloride	ug/m3	ND	ND	0	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

QC Batch: AIR/4920 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1042348008, 1042348009, 1042348010, 1042348011, 1042348012, 1042348013, 1042348014, 1042348015, 1042348016, 1042348018, 1042348019

METHOD BLANK: 291538

Associated Lab Samples: 1042348008, 1042348009, 1042348010, 1042348011, 1042348012, 1042348013, 1042348014, 1042348015, 1042348016, 1042348018, 1042348019

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	
1,1,2-Trichloroethane	ug/m3	ND	1.1	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	
1,1-Dichloroethane	ug/m3	ND	0.82	
1,1-Dichloroethene	ug/m3	ND	0.81	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	
1,2-Dichlorobenzene	ug/m3	ND	1.2	
1,2-Dichloroethane	ug/m3	ND	0.82	
1,2-Dichloropropane	ug/m3	ND	0.94	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	
1,3-Butadiene	ug/m3	ND	0.45	
1,3-Dichlorobenzene	ug/m3	ND	1.2	
1,4-Dichlorobenzene	ug/m3	ND	1.2	
2-Butanone (MEK)	ug/m3	ND	0.60	
2-Hexanone	ug/m3	ND	0.83	
4-Ethyltoluene	ug/m3	ND	2.5	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	
Acetone	ug/m3	ND	0.48	
Benzene	ug/m3	ND	0.65	
Bromodichloromethane	ug/m3	ND	1.4	
Bromoform	ug/m3	ND	2.1	
Bromomethane	ug/m3	ND	0.79	
Carbon disulfide	ug/m3	ND	0.63	
Carbon tetrachloride	ug/m3	ND	1.3	
Chlorobenzene	ug/m3	ND	0.94	
Chloroethane	ug/m3	ND	0.54	
Chloroform	ug/m3	ND	0.99	
Chloromethane	ug/m3	ND	0.42	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	
Cyclohexane	ug/m3	ND	0.68	
Dibromochloromethane	ug/m3	ND	1.7	
Dichlorodifluoromethane	ug/m3	ND	1.0	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	
Ethyl acetate	ug/m3	ND	0.73	
Ethylbenzene	ug/m3	ND	0.88	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	
m&p-Xylene	ug/m3	ND	1.8	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

METHOD BLANK: 291538

Associated Lab Samples: 1042348008, 1042348009, 1042348010, 1042348011, 1042348012, 1042348013, 1042348014, 1042348015, 1042348016, 1042348018, 1042348019

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl-tert-butyl ether	ug/m3	ND	0.73	
Methylene Chloride	ug/m3	ND	0.71	
n-Heptane	ug/m3	ND	0.83	
n-Hexane	ug/m3	ND	0.72	
Naphthalene	ug/m3	ND	2.7	
o-Xylene	ug/m3	ND	0.88	
Propylene	ug/m3	ND	0.35	
Styrene	ug/m3	ND	0.87	
Tetrachloroethene	ug/m3	ND	1.4	
Tetrahydrofuran	ug/m3	ND	0.60	
Toluene	ug/m3	ND	0.77	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	
Trichloroethene	ug/m3	ND	1.1	
Trichlorofluoromethane	ug/m3	ND	1.1	
Vinyl acetate	ug/m3	ND	0.71	
Vinyl chloride	ug/m3	ND	0.52	

LABORATORY CONTROL SAMPLE: 291539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58.3	55.8	96	60-134	
1,1,2,2-Tetrachloroethane	ug/m3	74	71.2	96	55-141	
1,1,2-Trichloroethane	ug/m3	59.4	58.5	99	64-129	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	81.5	100	55-137	
1,1-Dichloroethane	ug/m3	43.6	42.2	97	59-136	
1,1-Dichloroethene	ug/m3	41.9	40.6	97	60-137	
1,2,4-Trichlorobenzene	ug/m3	80.6	86.5	107	50-150	
1,2,4-Trimethylbenzene	ug/m3	53	56.0	106	63-137	
1,2-Dibromoethane (EDB)	ug/m3	82.8	86.2	104	61-136	
1,2-Dichlorobenzene	ug/m3	64.8	64.0	99	60-139	
1,2-Dichloroethane	ug/m3	43.6	43.5	100	56-141	
1,2-Dichloropropane	ug/m3	49.4	50.4	102	57-131	
1,3,5-Trimethylbenzene	ug/m3	52.5	57.3	109	61-134	
1,3-Butadiene	ug/m3	24.3	22.6	93	53-140	
1,3-Dichlorobenzene	ug/m3	67.3	66.3	99	59-136	
1,4-Dichlorobenzene	ug/m3	64.2	63.6	99	59-130	
2-Butanone (MEK)	ug/m3	32.4	29.5	91	54-133	
2-Hexanone	ug/m3	45.8	39.0	85	54-139	
4-Ethyltoluene	ug/m3	55	58.1	106	61-138	
4-Methyl-2-pentanone (MIBK)	ug/m3	45.8	42.3	92	53-139	
Acetone	ug/m3	24.4	19.6	80	50-139	
Benzene	ug/m3	34.4	29.5	86	64-125	
Bromodichloromethane	ug/m3	70.9	76.5	108	61-131	

QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

LABORATORY CONTROL SAMPLE: 291539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/m3	110	129	117	66-138	
Bromomethane	ug/m3	40.3	40.7	101	55-135	
Carbon disulfide	ug/m3	33.3	33.3	100	50-150	
Carbon tetrachloride	ug/m3	67.8	67.3	99	58-135	
Chlorobenzene	ug/m3	49.6	49.4	99	62-139	
Chloroethane	ug/m3	27.1	25.4	94	56-140	
Chloroform	ug/m3	48.7	48.3	99	50-150	
Chloromethane	ug/m3	21	21.3	101	56-144	
cis-1,2-Dichloroethene	ug/m3	42.7	42.1	98	62-135	
cis-1,3-Dichloropropene	ug/m3	48.9	55.1	113	64-133	
Cyclohexane	ug/m3	35.7	29.9	84	54-139	
Dibromochloromethane	ug/m3	95.3	97.5	102	50-150	
Dichlorodifluoromethane	ug/m3	50.8	52.2	103	60-130	
Dichlorotetrafluoroethane	ug/m3	71.8	89.7	125	59-130	
Ethyl acetate	ug/m3	35.9	37.1	103	60-132	
Ethylbenzene	ug/m3	46.4	51.0	110	65-140	
Hexachloro-1,3-butadiene	ug/m3	115	153	133	50-150	
m&p-Xylene	ug/m3	92.7	100	108	60-132	
Methyl-tert-butyl ether	ug/m3	38.1	35.5	93	50-150	
Methylene Chloride	ug/m3	37.1	38.6	104	56-138	
n-Heptane	ug/m3	43.3	37.9	87	62-135	
n-Hexane	ug/m3	35.8	38.5	107	62-134	
Naphthalene	ug/m3	55.3	53.8	97	70-130	
o-Xylene	ug/m3	46.8	52.0	111	64-132	
Propylene	ug/m3	18.4	15.7	86	56-125	
Styrene	ug/m3	45.9	52.5	114	69-134	
Tetrachloroethene	ug/m3	67.6	68.4	101	60-137	
Tetrahydrofuran	ug/m3	31.5	26.5	84	52-139	
Toluene	ug/m3	41	34.1	83	69-130	
trans-1,2-Dichloroethene	ug/m3	39.9	44.3	111	50-150	
trans-1,3-Dichloropropene	ug/m3	50.8	59.1	116	70-142	
Trichloroethene	ug/m3	56.8	57.1	100	60-134	
Trichlorofluoromethane	ug/m3	57.7	58.0	101	56-141	
Vinyl acetate	ug/m3	38.3	43.5	114	61-142	
Vinyl chloride	ug/m3	26.3	26.1	99	66-132	

SAMPLE DUPLICATE: 291540

Parameter	Units	1042348008 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND	0	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND	0	
1,1,2-Trichloroethane	ug/m3	ND	ND	0	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	0	
1,1-Dichloroethane	ug/m3	ND	ND	0	
1,1-Dichloroethene	ug/m3	ND	ND	0	
1,2,4-Trichlorobenzene	ug/m3	ND	ND	0	
1,2,4-Trimethylbenzene	ug/m3	5.3	3.8J	32 D6	

Date: 12/11/2006 12:38 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 291540

Parameter	Units	1042348008 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/m3	ND	ND	0	
1,2-Dichlorobenzene	ug/m3	ND	ND	0	
1,2-Dichloroethane	ug/m3	ND	ND	0	
1,2-Dichloropropane	ug/m3	ND	ND	0	
1,3,5-Trimethylbenzene	ug/m3	ND	ND	0	
1,3-Butadiene	ug/m3	ND	ND	0	
1,3-Dichlorobenzene	ug/m3	ND	ND	0	
1,4-Dichlorobenzene	ug/m3	ND	ND	0	
2-Butanone (MEK)	ug/m3	28.8	20.8	32	D6
2-Hexanone	ug/m3	3.3	ND	200	D6
4-Ethyltoluene	ug/m3	ND	ND	45	D6,SS
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND	0	
Acetone	ug/m3	198	164	18	E,SS
Benzene	ug/m3	14.3	10.4	32	D6,SS
Bromodichloromethane	ug/m3	ND	ND	0	
Bromoform	ug/m3	ND	ND	0	
Bromomethane	ug/m3	ND	ND	0	
Carbon disulfide	ug/m3	3.2	2.7	19	
Carbon tetrachloride	ug/m3	ND	ND	0	
Chlorobenzene	ug/m3	ND	ND	0	
Chloroethane	ug/m3	ND	ND	0	
Chloroform	ug/m3	ND	ND	200	D6
Chloromethane	ug/m3	ND	ND	0	
cis-1,2-Dichloroethene	ug/m3	ND	ND	0	
cis-1,3-Dichloropropene	ug/m3	ND	ND	0	
Cyclohexane	ug/m3	9.4	6.6	34	D6
Dibromochloromethane	ug/m3	ND	ND	0	
Dichlorodifluoromethane	ug/m3	3.3	3.0	9	
Dichlorotetrafluoroethane	ug/m3	ND	ND	0	
Ethyl acetate	ug/m3	ND	ND	0	
Ethylbenzene	ug/m3	7.9	5.7	32	D6
Hexachloro-1,3-butadiene	ug/m3	ND	ND	0	
m&p-Xylene	ug/m3	14.7	10.8	31	D6
Methyl-tert-butyl ether	ug/m3	ND	ND	0	
Methylene Chloride	ug/m3	5.4	45.3	158	D6,SS
n-Heptane	ug/m3	ND	ND	0	
n-Hexane	ug/m3	22.1	20.0	10	SS
Naphthalene	ug/m3	ND	ND	0	
o-Xylene	ug/m3	5.1	3.8	30	D6
Propylene	ug/m3	32.1	23.2	32	D6
Styrene	ug/m3	ND	ND	0	
Tetrachloroethene	ug/m3	21.5	16.6	26	D6
Tetrahydrofuran	ug/m3	ND	ND	0	
Toluene	ug/m3	30.5	23.6	26	D6
trans-1,2-Dichloroethene	ug/m3	ND	ND	0	
trans-1,3-Dichloropropene	ug/m3	ND	ND	0	
Trichloroethene	ug/m3	6.2	4.3	37	D6
Trichlorofluoromethane	ug/m3	ND	ND	0	

Date: 12/11/2006 12:38 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

SAMPLE DUPLICATE: 291540

Parameter	Units	1042348008 Result	Dup Result	RPD	Qualifiers
Vinyl acetate	ug/m3	ND	ND	0	
Vinyl chloride	ug/m3	ND	ND	0	

QUALIFIERS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

SAMPLE QUALIFIERS

Sample: 1042348008

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348009

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348010

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348011

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348012

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348013

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348014

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348015

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348016

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348018

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 1042348019

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

IS The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 200605038 ST. LOUIS PARK

Pace Project No.: 1042348

ANALYTE QUALIFIERS

- | | |
|----|--|
| 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. |
| SS | This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value. |
| 1M | This analyte did not meet the secondary source verification criteria for the initial calibration. |
| 2M | Analyte recovery in the laboratory control sample (LCS) was below QC limits at 58% with a lower limit of 60. Results for this analyte in associated samples may be biased low. |
| 3M | Analyte recovery in the laboratory control sample (LCS) was below QC limits at 54% with a lower limit of 56. Results for this analyte in associated samples may be biased low. |

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

10-10-154

10-10-154



No 30490

1042348

Contact Person Peter Rzepecki
 Phone No. 763356345 Office 6
 Project No. 200605038 PO No. _____
 Project Name St. Louis Park

Special Handling Request

☐ Rush
☐ Verbal
☐ Other

RECORD NUMBER 1 THROUGH 3

Laboratory Pace
 Contact Person David Anderson
 Phone No. DAVID PETERSON
 Results Due standard

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data			Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID	Sample	PH		
SVP-20	11/16	1120			1	Air		X				T0-15	Summa # 0908 001
SVP-19	11/16	1150			1								# 1151 002
SVP-18	11/16	1210			1								# 0907 003
SVP-17	11/16	1230			1								# 1167 004
SVP-16	11/16	1300			1								# 0896 005
SVP-14	11/16	1320			1								# 1132 006
SVP-13	11/16	1345			1								# 0774 007
SVP-21	11/16	1430			1								# 1147 008
SVP-22	11/16	1520			1								# 0773 009
Collected by: <u>JASON RAYNE</u>		Date	11/16/08	Time	1700	Delivery by:		Date	Time				
Received by: <u>Shawn Davis</u>		Date	11/20/08	Time	1013	Relinquished by: <u>Shawn Davis</u>		Date	Time				
Received by:		Date		Time		Relinquished by:		Date	Time				
Received by:		Date		Time		Relinquished by:		Date	Time				
Received for lab by: <u>B. Fleury</u>		Date	11/20/08	Time	13:05	Relinquished by:		Date	Time				

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☒ No ☐ N/A

Final Disposition:

Comments (Weather Conditions, Precautions, Hazards):

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

CHAIN OF CUSTODY RECORD



1042348

Nº 30491

Contact Person Peter Rzepecki
 Phone No. 763 315 6345 Office
 Project No. 200605038 PO No. _____
 Project Name ST Louis Park

Special Handling Request	
☐	Rush
☐	Verbal
☐	Other

RECORD NUMBER 2 THROUGH 3
 Laboratory Pace
 Contact Person Andrea Andersen
 Phone No. DNELL PETERSON
 Results Due Standard

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data			Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID	Sample	PH		
SVP-15	11/16/15	1415			1	Air		X				TO-15	Summary # 0920 010
SVP-2	1555				1								# 1169 011
SVP-1	1615				1								# 0895 012
SVP-5	1645				1								# 0998 013
SVP-4	1710				1								# 0905 014
DUPLICATE					1								# 1027 015
DUPLICATE					1								# 0770 116
EQUIL. BLANK	9:30				1								# 1101 017

Collected by: JASON ROWE Date 11/17/06 Time 17:00 Delivery by: _____ Date _____ Time _____
 Received by: Shawn Davis Date 11/20/06 Time 10:13 Relinquished by: Shawn Davis Date 11/20/06 Time 13:05
 Received by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____
 Received by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____
 Received for lab by: B. Flemer Date 11/20/06 Time 13:05 Relinquished by: _____ Date _____ Time _____

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☒ No ☐ N/A

Final Disposition: _____
 Comments (Weather Conditions, Precautions, Hazards): _____

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k

STS Consultants Ltd.
 Consulting Engineers

CHAIN OF CUSTODY RECORD

No 30492

1042348



Contact Person Peter Repack
 Phone No. 763 356345 Office 6
 Project No. 200605038 PO No. _____
 Project Name ST LOUIS PARK

Special Handling Request

☐ Rush
☐ Verbal
☐ Other

RECORD NUMBER 3 THROUGH 3
 Laboratory PACÉ
 Contact Person BLAKE ANDERSON
 Phone No. DARYL PETERSON
 Results Due STANDARD

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data			Analysis Request	Comments on Sample (Include Major Contaminants)	
							Y	N	PID/FID	Sample	PH			Special Cond.
SVP-3	11/17	1730			1	Air		X				TO-15	Summa # 0882	
SVP-10		805			1								# 0892	
SVP-12		840											# 0900	
SVP-7		945											# 1174	
SVP-6		1125											# 1000	
SVP-9		1110											# 0874	
SVP-11		1140											# 1021	
SVP-8		1210											# 0876	
DUPLICATE													# 0921	

Collected by: JASON ROWE Date 11/17/05 Time 1300 Delivery by: _____ Date _____ Time _____

Received by: Sharon Davis Date 11/20/06 Time 1013 Relinquished by: Sharon Davis Date 11/20/06 Time 1305

Received by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____

Received by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____

Received for lab by: B. Fleury Date 11/20/06 Time 13:05 Relinquished by: _____ Date _____ Time _____

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☒ No ☐ N/A

Final Disposition: _____

Comments (Weather Conditions, Precautions, Hazards): _____

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k

STS Consultants Ltd.
 Consulting Engineers



Sample Condition Upon Receipt

Client Name: SIS Consultant Project # W4 2348

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 230194010

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature Amb

Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: BE 11/20/06

Temp should be above freezing to 6°C

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 & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ 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.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AB CAN</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☒ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☒ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mcA

Date: 12/13/06

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)

2006-Validation Report for Analytical Data
St. Louis Park Soil Vapor Survey
STS Project No. 200605038

The following validation report was prepared in conformance with the MPCA Guidance Document 4-01a dated April 2005. The analytical data reports were reviewed under the above-referenced MPCA Guidance Document and are considered reasonable based on adherence to the recognized quality control/quality assurance measures presented in section III of the Guidance Document.

1. Blanks

- a. All compounds analyzed showed no detections the laboratory method blank.
- b. Equipment blank was sampled on November 16, 2006. The equipment blank showed detections of benzene (1.6 ug/m³) above the laboratory reporting limit and above the Minnesota action level criteria. Acetone (25.9 ug/m³), 2-Butanone (5.0 ug/m³), Carbon disulfide (1.6 ug/m³), Dichlorodifluoromethane (1.9 ug/m³), and Toluene (5.6ug/m³) showed detections all above the laboratory reporting limits, but below the Minnesota action level criteria.
- c. Cleaning procedures for the equipment, involved the use of distilled water with soap detergent (Aloconox) before and after every soil gas sampling point.

2. Laboratory Control Sample (LCS)

All analysis show spike concentrations, percent recoveries, and LCS results.

3. Calibration

For the soil gas samples collected on November 16 to 17, 2006, no comments were made in the laboratory analytical regarding a laboratory calibration curve and chromatograms for analysis.

4. Laboratory Documentation

- a. The Laboratory report includes a coversheet with signature; the results correspond with the most current NELAC standards, a chain of custody form, tables of VOC compounds, with CAS numbers, reporting limit, date of analysis, and method blank data for the batch. All compounds are reported in µg/m³.
- b. a notation in the laboratory report's sample qualifiers section, states "The Total hydrocarbons (THC) patterns is evenly distributed throughout the chromatogram (before and after toluene)."

5. Duplicate Samples

- a. A duplicate sample was collected of SVP-4 and both samples show detections of benzene, chloroform, tetrachloroethylene, trichloroethylene, and 1,2,4 trimethylbenzene above the Minnesota Action Level criteria.
- b. A duplicate sample was collected of SVP-6 and both samples show detections of benzene above the Minnesota Action Level criteria.
- c. A duplicate sample was collected of SVP-17. The duplicate showed detections of bromodichloromethane, carbon tetrachloride, 1,2 dibromoethane, and tetrachloroethylene above the Minnesota Action level criteria, but no detections were shown of these compounds in sample SVP-17.

6. Holding Times

Holding time for samples in the SUMMA canister at ambient temperature for the EPA Method TO-15 is 14 days. All 22 soil gas samples were collected on November 16 to 17, 2006 and all 22 samples were analyzed on December 6 to 8, 2006. Thus, the samples were held for 19 to 22 days which is longer than the allowed holding time.