



# Minnesota Pollution Control Agency

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## **Solid Waste Management Facility Permit**

**Permit:** SW-34

Clay County Sanitary Landfill

**Action:** PER008

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In accordance with Minn. Stat. chs. 115, 115A, and 116, and Minn. R. chs. 7000, 7001, and 7035, the Minnesota Pollution Control Agency (MPCA) hereby issues this permit and authorizes the permittee listed on the following page to construct and operate the Clay County Sanitary Landfill, SW-34, under the conditions set forth in this permit.

The facility consists of 192 acres located in: Township 139 North, Range 45 West, Section 19, Clay County, in the MPCA Detroit Lakes Region. The facility includes the following waste activity areas:

Leachate Recirculation	LR001
Municipal Solid Waste Disposal Area	SA003
Solid Waste Storage Area	ST001

The determination to issue this permit is discretionary with the MPCA and was made subsequent to MPCA staff review of the permit application. The term commissioner, as used in this permit, refers to the MPCA Commissioner or MPCA personnel who have been delegated explicit authority by the commissioner. Other terms used in this permit are defined in Minnesota Statutes, the MPCA Solid Waste Management Rules, or specifically defined in this permit.

Permit Issuance Date: \_\_\_\_\_

Permit Expiration Date: \_\_\_\_\_

Minnesota Pollution Control Agency

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Mike Mondloch  
Supervisor, Solid Waste Permitting Unit  
Prevention & Solid Waste Management Section  
Resource Management & Assistance Division

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**Solid Waste Management Facility Permit**  
Clay County Sanitary Landfill

**Permit:** SW-34  
**Action:** PER008

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The following permittee is authorized to construct and operate the Clay County Sanitary Landfill, SW-34 under the conditions set forth in this permit.

**Permittee Activity Owner:**  
Clay County

**Address:**  
807 11th Street North  
Moorhead, MN 56560

**Permittee Land Owner:**  
Clay County

**Address:**  
807 11th Street North  
Moorhead, MN 56560

**Permittee Operator:**  
Clay County

**Address:**  
3301 190th Street South  
Hawley, MN 56549

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## 1. TOTAL FACILITY

### 1.1 General

#### 1.1.1 Definitions

- 1.1.2 "ACM" means Asbestos Containing Material.
- 1.1.3 "Airspace" means the volume for filling with waste, considering all solid waste, daily, intermediate, intermittent and final cover materials, and design restrictions.
- 1.1.4 "Commissioner" means the commissioner of the Minnesota Pollution Control Agency, or any individual who is authorized to review and approve submittals on behalf of the commissioner.
- 1.1.5 "Design Capacity" means the maximum estimated potential airspace to be occupied by a land disposal facility, including all cover systems. "Design capacity" is used only for planning purposes and is distinct from permitted capacity. "Design capacity" is an estimate dependent on the existing landholdings of the permittee, existing regulations that affect development and design (including required buffer areas, storm water management requirements, and slopes), engineering designs, and site developmental plans. It includes all areas that have been completed, all active areas, and all proposed areas based on the largest design footprint shown on the plan sheets. It is the volume that, upon final closure of the facility, would be occupied by waste (along with all associated materials including cover) measured from the base of the fill to the top of the proposed final cover.
- 1.1.6 "Facility" has the meaning given in Minn. R. 7035.0300, subp. 37.
- 1.1.7 "Permitted Capacity" means the total airspace volume in cubic yards allowed for disposal at the facility under the most recently issued permit. It includes airspace already filled by previous disposal activities, before the start of the permit; estimated fill volumes to be used during the ten-year term of the current permit, including cover systems; and may also include estimated fill volumes and cover systems that would be used during an additional "follow-on" period extending up to five years past the current permit's expiration date, provided that the permittee has submitted detailed engineering plans for the use and closure of that follow-on disposal space.
- 1.1.8 "Permittee" means the landowner, facility owner(s), and facility operator(s).
- 1.1.9 "Waste Activity" means the storage, processing, transfer, utilization, treatment, or disposal of solid waste and waste by-products.
- 1.1.10 "Waste Activity Area" means the land, structures, monitoring devices, and other appurtenances and improvements on the land associated with a waste activity.

#### 1.1.11 Waste Activities

- 1.1.12 The facility waste activities authorized by this permit are limited to those activities described in the Waste Capacity Table of this permit.

#### 1.1.13 Permit Compliance

- 1.1.14 The permittee shall keep the status of the permit current and up-to-date in accordance with Minn. R. 7001.3050.

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**TOTAL FACILITY**

**General**

1.1.15 The permittee shall perform the actions or conduct the activity authorized by the permit in accordance with the plans and specifications approved by the agency and in accordance with the conditions of the permit.

**1.1.16 Location**

1.1.17 The facility authorized by this permit occupies approximately 192.4 acres. The facility is located about 17 miles east of Moorhead, Minnesota, on Highway 10, then about 3 miles south on County Road 23 in Section 19, T139N, R45W, Hawley Township, Clay County, Minnesota. the facility address is:

3301 - 190th Street South  
Hawley, Minnesota 56549

**1.1.18 Facility History**

1.1.19 On May 13, 1971, the Minnesota Pollution Control Agency (MPCA) issued permit SW-34 to Clay County for the construction and operation of a solid waste disposal system. The facility was to be developed in three phases with an estimated airspace capacity of 21,685,000 cubic yards. Airspace capacity includes all waste, daily, intermittent, intermediate and final cover materials. On October 13, 1971, after holding public hearings, the MPCA modified permit SW-34 to authorize placement of waste in the area identified as Phase II which encompasses the fill areas later known as Areas I, II and III, with ground water monitoring in the areas identified as Phases 1 and 3. Waste could not be placed in Phase I without prior written approval from the MPCA. On June 6, 1994, the MPCA modified and reissued permit SW-34 to allow for the continued development of Area II, and to authorize the construction and operation of a three-phased lined development area -- Area III. A minor modification was approved by the MPCA on April 4, 1997, to allow for a redistribution of waste within Area III. On January 25, 2001, the MPCA reissued SW-34 to allow for the continued development of Phase 2, Area III and Phase 3, Area III with a total permitted airspace of 2,387,500 cubic yards.

1.1.20 On April 28, 2004, the permit was reissued authorizing the construction and development of an additional lined fill area known as Area IV. The development of Area IV was planned to increase the design and ultimate capacity of the site to 3,833,500 cubic yards. The MPCA modified the permit on February 18, 2005, to require the electronic submittal of monitoring data and again on May 29, 2007, to make corrections to the Limits Tables.

1.1.21 The 2009 permit incorporated a vertical expansion over lined Areas III and IV to elevation 1209 increasing the design and ultimate capacity of the site to 5,438,963 cubic yards. This permit also authorizes the implementation of leachate recirculation within the lined landfill cells.

**1.1.22 Facility Description**

1.1.23 The facility authorized by this permit is an MSW land disposal facility. The entire MSW fill area has been consolidated into one chapter in this permit and it is designated as SA003.

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**General**

- 1.1.24 Area I originally occupied approximately 16 acres in the northern-most portion of the facility. It was filled from a base elevation of 1105 feet to a final elevation of 1136 feet. Area I was closed in 1982 with a two-foot clay cap. In 1994, as part of a ground water remedial action response, waste was excavated and removed from a 150-foot strip along the northern property boundary and placed on top of the remaining Area I fill area. This area was then final covered with a synthetic membrane cover and gas venting system. As a result, the Area I footprint was reduced to 13 acres. During the development of Area IV, approximately 394,000 cubic yards of Area I was excavated and placed within the lined disposal Area IV. Therefore, Area I no longer exists.
- 1.1.25 Area II is a closed, unlined MSW fill area which occupies approximately 25 acres in the central portion of the facility. It was filled from a base elevation of 1105 feet to a final elevation of 1157 feet. In 1995, Area II was final covered with a synthetic membrane and gas venting system. Area II has 1,470,000 cubic yards of waste in place, including cover soils.
- 1.1.26 Area III is a lined MSW fill area that occupies approximately 15 acres of the facility piggybacking on the south slope of Area II. In 1994, this area was permitted for an airspace capacity of 523,500 cubic yards for the development of Phases 1 - 3. Airspace capacity includes all waste, daily, intermittent, intermediate and final cover materials. In 2005, this area was final covered with a maximum final fill elevation of 1158 feet.
- 1.1.27 Area IV was initially permitted in 2004 with an ultimate design capacity of 1,840,000 cubic yards in Phases 1 - 6. Area IV piggybacks on the north slope of Area II. Phases 1 and 2 were located in the horizontal expansion area to the northeast of the original fill area. Waste from the unlined Area I was relocated into these lined cells. Cell development has proceeded into the former Area I footprint area with the construction of Phase 3. Originally Area IV was proposed to be developed to a final fill elevation of 1158. The permittee has requested a vertical expansion over the existing Phases 1 - 3 and 4 North and future Phase 4 South.
- 1.1.28 The facility accepts demolition debris, appliances and various recyclables for temporary storage prior to recycling or disposal at off-site facilities. This storage activity is designated as Waste Activity ST001 under this permit.
- 1.1.29 This 2015 permit reissuance authorizes continued MSW, industrial and demolition waste disposal in the MSW landfill. There is approximately 3,000,000 cy of waste in place and the permit allows for 1,000,000 cy of airspace capacity. Leachate recirculation activities and requirements are located in the SA003 permit section.

**1.1.30 Environmental Review**

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**General**

1.1.31 The request for a vertical expansion of the facility resulted in an increase in ultimate design capacity which exceeded 25% of the previous ultimate design capacity. This triggered the completion of a mandatory Environmental Assessment Worksheet (EAW). The EAW was presented to the MPCA Citizens' Board and a negative declaration for the completion of an Environmental Impact Statement (EIS) was granted on July 28, 2009.

**1.1.32 Certificate of Need**

1.1.33 In conjunction with the October 19, 2009 permit, the MPCA issued a certificate of need (CON) for 298,000 cubic yards of MSW disposal capacity. This included 120,000 cubic yards of unused CON from the previous permit action and an additional 178,000 cubic yards of new CON capacity. The CON applies only to the disposal of unprocessed MSW and does not include allowance for the disposal of industrial waste or cover materials. The facility shall track the use of the CON capacity on its annual report to the MPCA.

The facility owner has applied for a new CON. There will be a minor modification to this permit to include the new CON as soon as that becomes available.

**1.2 Permit Documents**

**1.2.1 Permit Application**

1.2.2 The permit application approved by this permit is signed and dated April 14, 2014.

**1.2.3 Engineering Documents**

1.2.4 The engineering documents approved by this permit include the following.  
1.2.5 Industrial Solid Waste Management Plan prepared by Clay County dated February 1993.

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**Permit Documents**

- 1.2.6 Application for Permit Renewal prepared by Wenck Associates, Inc. (Wenck) dated April 2014 providing:
  - ==> Design Report
  - ==> Construction Quality Assurance Plan
  - ==> General Construction Specifications
  - ==> Geotechnical Evaluation
  - ==> Surface water Management Calculations
  - ==> Gas System Calculations
  - ==> Plan Sheets
  - ==> Operations and Maintenance Plan
  - ==> Leachate Management Plan
  - ==> Leachate Recirculation Plan
  - ==> Health and Safety Plan
  - ==> Litter Control Plan
  - ==> Closure, Post-Closure, Financial Assurance Plan
  - ==> Contingency Action Plan
  - ==> Financial Assurance Cost Estimates

Response to MPCA Comments prepared by Wenck dated February 9, 2015.

**1.2.7 Hydrogeologic Evaluation Documents**

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**Permit Documents**

- 1.2.8 The hydrogeologic evaluation documents approved by this permit include:
1. Phase I Preliminary Investigation Report, approved 4/26/1990
  2. Phase II Detailed Site Investigation Workplan, received 10/16/1990
  3. Field Monitoring Protocol, approved 7/2/1991
  4. Phase II Detailed Site Investigation Report, approved 6/2/1991
  5. Phase III Water Monitoring System Work Plan, received 9/16/1991
  6. Phase III Water Monitoring System Report, approved 4/21/1992
  7. Phase IV Water Monitoring System Report, approved 3/4/1993
  8. Ground Water Investigation Workplan, approved 8/23/1993
  9. Remedial Work Plan for Area I, approved 7/28/1994
  10. Revised Field Monitoring Protocol, approved 11/21/1994
  11. Supplemental Work Plan for Areas I and II, approved 8/8/1994
  12. Assessment Monitoring Work Plan, approved 9/5/1995
  13. Report of Investigation, Part 2, approved 9/6/1995
  14. Assessment Monitoring Report, 1st Round, approved 9/5/1995
  15. Assessment Monitoring Report, 2nd Round, approved 6/18/1996
  16. Phase II Detailed Site Investigation Report, approved October 1, 2003
  17. Phase III Water Monitoring System Workplan, approved October 1, 2003
  18. Compliance Boundary Proposal, approved October 1, 2003
  19. Phase III Water Monitoring System Report, approved February 12, 2004
  20. Phase IV Water Monitoring System Workplan, approved February 12, 2004
  21. Sampling and Analysis Plan, approved February 12, 2004
  22. Compliance Boundary included in the Supplemental Well Installation Report dated April 2015

**1.2.9 Approved Plans**

- 1.2.10 The approved plans are incorporated into this permit. In addition, the approved version of all pending submittals required by this permit are incorporated into this permit. In all cases where the permit and the plans or submittals differ, the requirements of the permit shall govern over a condition in the plan or submittal. The approval by the commissioner of the plans and specifications shall not release the permittee from any present or subsequent requirements of statutes, rules, regulations, or ordinances.

**1.2.11 Revised Plans**

- 1.2.12 Any revised plans shall be submitted for approval by the commissioner. The permittee shall obtain approval from the commissioner on all revised engineering plans prior to construction of the affected portion of the facility.

**1.3 Design and Construction Criteria**

**1.3.1 Location Standards**

- 1.3.2 The disposal area must be located in accordance with Minn. R. 7035.2555 and Minn. R. 7035.2815, subp. 2.

**1.3.3 Ground Water Quality, Surface Water Quality, Air Quality, and Soil Protection**



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**Design and Construction Criteria**

1.3.4 The permittee must locate, design, and construct the facility to prevent pollution of ground water and surface water, minimize the contamination of soils from solid waste, and maintain the facility in conformance with MPCA air pollution control rules in accordance with Minn. R. 7035.2565.

**1.3.5 Storage Standards**

1.3.6 A waste activity area where solid waste is stored must be designed in accordance with Minn. R. 7035.2855 except as provided in, subp. 1 and Minn. R. 7035.2525, subp. 2.

**1.3.7 Storm Water Management System**

1.3.8 The permittee shall construct and certify the storm water management system for the facility with Best Management Practices to manage storm water discharge in accordance with the National Pollutant Discharge Elimination System/State Disposal System (NPDES) Permit for the discharge of storm water associated with an industrial activity and/or a construction activity.

1.3.9 The permittee must design and construct run-on/run-off control systems in accordance with 40 CFR 258.26 for a 25-year, 24-hour design storm event.

**1.3.10 Construction Plan**

1.3.11 The permittee shall submit construction plans and specifications to the commissioner 14 days prior to the proposed start of construction of any project related to the facility, other than routine repairs and maintenance, that was approved under the permit. Along with the construction plans and specifications, the permittee shall submit a certification as provided in part 7001.0070 that certifies that the construction plans submitted do not deviate from design plans previously reviewed and approved by the MPCA, or that the construction plans submitted deviate from the design plans previously reviewed and approved by the MPCA, but that the deviation from the approved design plans is not significant. If the certification is for construction plans or specifications that deviate from approved design plans, the permittee shall include a statement of reasons why the change is not significant. For construction plans or specifications that deviate from approved design plans, the permittee shall obtain approval of the change from the commissioner prior to proceeding to bid or construct the project. Significant changes must be approved and the modified design plans incorporated into the permit as a minor amendment or major amendment, as appropriate, prior to implementation. If the MPCA agrees that a change is not significant, no permit amendment is required. For purposes of this provision, a "significant" change is one that has the potential to increase risk to the environment, for example, a more permeable barrier layer, thinner geomembrane or single versus dual containment piping.

**1.3.12 Construction Notification**

1.3.13 Unless the commissioner orders otherwise, the permittee shall notify appropriate MPCA staff at least ten (10) working days in advance of construction of the facility or any component thereof.

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**Design and Construction Criteria**

**1.3.14 Construction Certification**

1.3.15 The permittee must submit a construction certification for approval by the commissioner in accordance with Minn. R. 7035.2610. A facility waste activity or any new design feature must not be placed into operation until the construction certification has been approved by the commissioner.

**1.3.16 Alterations and Additions**

1.3.17 The permittee shall not make any major alterations or additions to the facility that would materially alter the manner in which waste is managed without first obtaining the written consent of the commissioner.

**1.4 Operating and Maintenance Criteria**

**1.4.1 Trained / Certified Operator**

1.4.2 The Permittee shall ensure that the required number of operators, trained or certified under Minn. R. 7035.2545 and Minn. R. 7048.0100 to 7048.1300, are present and on duty at all times that the Facility is open for the purpose of receiving waste.

**1.4.3 Security**

1.4.4 The Permittee shall prevent unauthorized entry onto the Facility in accordance with Minn. R. 7035.2535, subp. 3. In addition, the Permittee shall post a sign at the entrance of the Facility and each waste activity area showing the facility name, MPCA permit number, hours of operation, the acceptable waste, and any other relevant information.

**1.4.5 Personnel Training**

1.4.6 The Permittee shall establish and maintain a personnel training program consisting of classroom instruction and on-the-job training. The program must address the requirements identified in Minn. R. 7035.2545, subp. 3, and must include the specific training necessary to perform the tasks associated with each solid waste management area within the Facility. The Permittee shall maintain a record of all personnel training and submit the dates of training in the annual report.

**1.4.7 Operations Manual**

1.4.8 The Permittee shall prepare and maintain an operations and maintenance manual for the Facility. The manual must include operations and maintenance criteria that are specific to each solid waste management area within the Facility.

**1.4.9 Roads**

1.4.10 The Permittee shall construct and maintain all-weather approach and access roads to all waste activity areas within the Facility.

**1.4.11 Storage of Solid Waste**

1.4.12 The Permittee shall provide satisfactory storage for all solid waste accumulated at the Facility in accordance with Minn. R. 7035.0700 and Minn. R. 7035.2855.

**1.4.13 Nuisance Conditions**

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**Operating and Maintenance Criteria**

- 1.4.14 The Permittee shall keep the facility grounds and immediately adjacent property free of litter stemming from the facility operations. The facility grounds and adjacent property shall be inspected and cleared of all litter at least once per week.
- 1.4.15 The Permittee shall manage the Facility to be in compliance with Minn. R. 7011.0150 to prevent particulate matter from becoming airborne.
- 1.4.16 The Permittee shall manage all free liquids that have come in contact with solid waste so that the liquids are not discharged as stormwater.
- 1.4.17 The Permittee shall provide effective measures to control flies, rodents and other insects or vermin as necessary.

**1.4.18 Collection and Transportation of Solid Waste**

- 1.4.19 The Permittee shall provide for the proper collection and transportation of solid waste in accordance with Minn. R. 7035.0800.

**1.4.20 Unacceptable Wastes**

- 1.4.21 The Permittee shall not accept the wastes identified in Minn. R. 7035.2535, subp. 1 for treatment, storage, processing, or disposal.

**1.4.22 Industrial Solid Waste**

- 1.4.23 The Permittee shall manage industrial solid waste for each waste activity as specified in the approved plan in accordance with Minn. R. 7035.2535, subp. 5. The Permittee must include the information required by Minn. R. 7035.2575, subp. 2, items B and C in the annual report for each industrial waste accepted at the Facility.

The permittee shall submit for MPCA review and approval an updated Industrial Waste Management Plan within 90 days of permit issuance.

**1.4.24 Household Hazardous Waste**

- 1.4.25 The Permittee shall manage household hazardous waste management for each waste activity as specified in the approved plan in accordance with Minn. R. 7035.2535, subp. 6.

**1.4.26 Stormwater Management System**

- 1.4.27 The Permittee shall operate and maintain the stormwater management system for the Facility with Best Management Practices to manage stormwater discharges in accordance with the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit for the discharge of stormwater associated with an industrial activity and/or a construction activity.

**1.4.28 Groundwater Quality, Surface Water Quality, Air Quality, and Soil Protection**

- 1.4.29 The Permittee shall operate and maintain the Facility to prevent pollution of groundwater and surface water, minimize the contamination of soils from solid waste, and maintain the facility in conformance with MPCA air pollution control rules in accordance with Minn. R. 7035.2565.

**1.4.30 Emergency Equipment**

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**Operating and Maintenance Criteria**

1.4.31 The Permittee shall provide and maintain adequate emergency equipment at the facility to control accidental fires, and make arrangements with the local fire protection agency to immediately acquire their services when needed. The Permittee shall also provide adequate communications equipment for emergency purposes.

**1.4.32 Operating Record**

1.4.33 The Permittee shall keep a written operating record at the Facility in accordance with Minn. R. 7035.2575.

**1.4.34 Self Inspections**

1.4.35 The Permittee shall inspect the Facility in accordance with the schedule and items approved by the Commissioner as defined by Minn. R. 7035.2535, subp. 4. The Permittee must record inspections in an inspection log or summary and must keep these records for at least five years.

**1.4.36 Emergency Procedures Manual**

1.4.37 The Permittee shall maintain a copy of the approved emergency procedures manual at the Facility for facility personnel to use in time of emergency.

**1.4.38 Contingency Action Plan**

1.4.39 The Permittee shall maintain a copy of the approved contingency action plan at the Facility.

**1.4.40 Closure Plan**

1.4.41 The Permittee shall maintain a copy of the approved facility closure plan, and all revisions to the plan, at the Facility until closure is completed and certified in accordance with Minn. R. 7035.2635, subp. 3.

**1.4.42 Postclosure Plan**

1.4.43 The Permittee shall maintain a copy of the approved postclosure care plan, and all subsequent amendments, until the postclosure care period begins. During the postclosure care period, the plan must be kept by the contact person identified in Minn. R. 7035.2645, subp. 2, item C.

**1.5 Monitoring Criteria**

1.5.1 Surface water intervention limits apply to W-9, W-10, W-11, W-16, and W-17. In addition to the limits listed in the limits tables for these wells if leachate concentrations exceed the following limits for the following parameters then these analytes must be sampled for in the above listed monitoring wells.

Analyte      Limit in Leachate and Monitoring Wells

Cobalt	5 ug/L
Silver	1 ug/L
Thallium	0.56 ug/L

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**Monitoring Criteria**

- 1.5.2 If an intervention limit exceedance is confirmed in any compliance wells then the permittee must notify the commissioner within 30 days of confirmation of the exceedance, and then all down-gradient monitoring wells must be sampled at minimum of twice per year for VOCs, and once per year for the inorganic parameters listed in the permit.

**1.6 Reporting Criteria**

**1.6.1 Annual Report**

- 1.6.2 The permittee shall submit an annual facility report for the preceding calendar year in accordance with Minn. R. 7035.2585, 7035.2815, subp. 13, item S and 7035.2845, subp. 4, item C. When required of a waste activity, the report must include summary evaluation reports and specific annual reporting requirements. The permittee shall submit the report to the commissioner according to the schedule in the Required Actions and Submittals Table(s) of this permit.
- 1.6.3 The permittee shall submit an annual gas monitoring evaluation report summarizing the results of the quarterly methane monitoring in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR 258.23. The permittee shall submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit. The monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values.

**1.6.4 Electronic Data Reporting**

- 1.6.5 The permittee shall submit an electronic copy of all water quality monitoring data for each monitoring event. Electronic data must be submitted in the format outlined in the MPCA Solid Waste Program Electronic Laboratory Data Submittal Manual which can be found on the MPCA Solid Waste Permitting webpage at <http://www.pca.state.mn.us/waste/swpermits.html#data>. The schedule for submitting electronic copies of monitoring data shall follow the schedule outlined for monitoring reports as identified in the Required Actions and Submittals Table(s) of this permit.
- 1.6.6 Unless specifically directed by the Commissioner, the submittal of a paper copy of all water monitoring reports as outlined in the Required Actions and Submittals Table(s) is still required.

**1.6.7 Monitoring Station Location Information**

- 1.6.8 Location and elevation data shall be collected for all monitoring stations. Prior to collecting this information, a work plan shall be submitted for Commissioner approval, which outlines the proposed methods to be used. Location data must be submitted in latitude/longitude coordinates and the datum used must be identified. Elevation data for monitoring wells must include the elevation of the riser pipe and ground surface. The depth of the well from the top of the riser pipe must also be identified. If existing data is being reported, the surveying method and datum used to collect the information must be identified.

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**TOTAL FACILITY**

**1.7 Contingency Action Criteria**

**1.7.1 Contingency Action Plan**

- 1.7.2 The permittee shall address all facility waste activities in the approved plan in accordance with Minn. R. 7035.2615.
- 1.7.3 The permittee must implement the actions necessary to comply with requirements in accordance with Minn. R. 7035.2815, subp. 15.
- 1.7.4 If a fire occurs in the waste deposit area, the permittee shall immediately implement its contingency action plan to extinguish the fire.

Within 24 hours of discovery of the fire, the permittee shall provide notice to the MPCA that a fire has occurred and that the contingency action plan has been implemented. If the permittee has not extinguished the fire within two weeks of notice, the permittee shall again notify the MPCA and shall provide the name of the professional engineer that the permittee has hired to develop a revised plan for further fire fighting efforts. The permittee shall submit the revised plan to the MPCA for review and approval within 15 days of the notice to the MPCA that a revised plan is being prepared. To be approved, the revised plan must identify the actions that will be taken to extinguish the fire, including sources for materials and equipment and a timeline for implementation, and must be signed by a registered professional engineer. The permittee shall implement the revised plan upon approval by the MPCA.

**1.7.5 Emergency Preparedness and Prevention**

- 1.7.6 The permittee must design, construct, maintain, and operate a facility to minimize the possibility of a fire, explosion, or any release to air, land, or water of pollutants that threaten human health and the environment in accordance with Minn. R. 7035.2595.

**1.7.7 Emergency Procedures**

- 1.7.8 The permittee must take all reasonable containment measures during an emergency and submit a written report to the commissioner in accordance with Minn. R. 7035.2605.

**1.8 Closure Criteria**

**1.8.1 Closure Plan**

- 1.8.2 The permittee must close the facility and each waste activity as specified in the approved plan in accordance with Minn. R. 7035.2625.
- 1.8.3 The permittee must meet the closure requirements specified in Minn. R. 7035.2815, subp. 16, item A.
- 1.8.4 The permittee must perform closure for each waste activity as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2635.

**1.8.5 Closure Procedures**

- 1.8.6 The permittee must complete closure activities for the waste activity area in accordance with the closure plan within 180 days following the beginning of closure as specified in the closure procedures above.

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**1.9 Postclosure Criteria**

**1.9.1 Postclosure Plan**

1.9.2 The permittee must comply with postclosure requirements in the approved plan in accordance with Minn. R. 7035.2645.

**1.9.3 Postclosure Care**

1.9.4 The permittee must perform postclosure care in accordance with Minn. R. 7035.2655, subp. 1.

1.9.5 The permittee must conduct postclosure care for 30 years as specified in 40 CFR 258.61. Although some waste activity areas are already closed, the postclosure care period does not begin until the Total Facility has complied with closure.

1.9.6 The permittee must perform postclosure care in accordance with Minn. R. 7035.2815, subp. 16, item B.

**1.9.7 Postclosure Use of Property**

1.9.8 The permittee must comply with postclosure use of property requirements in accordance with Minn. R. 7035.2655, subp. 2.

**1.10 Financial Criteria**

**1.10.1 Cost Estimates**

1.10.2 The permittee must keep the current cost estimates for each waste activity at the facility during the operating life in accordance with Minn. R. 7035.2685, subp. 2.

**1.10.3 Financial Assurance**

1.10.4 The permittee shall establish and maintain financial assurance in accordance with Minn. R. 7035.2665 to 7035.2805.

**1.11 General Conditions**

**1.11.1 Release**

1.11.2 The MPCA's issuance of a permit does not release the permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes, or regulations, or local ordinances including, but not limited to, those promulgated pursuant to Minn. Stat. chs. 115, 115A, 116, 400 and 473. This permit shall be permissive only and shall not be construed as estopping or limiting any claims against the permittee, its agents, contractors, or assigns, nor as estopping or limiting any legal claims of the state against the permittee, its agents, contractors, or assigns for damages to state property, or for any violation of the terms of this permit.

**1.11.3 Future Changes**

1.11.4 The MPCA's issuance of a permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or enforcement orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or enforcement orders against the permittee.

**1.11.5 Rights and Privilege**

1.11.6 The permit does not convey a property right or an exclusive privilege.

**1.11.7 Enforcement**

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**General Conditions**

1.11.8 The MPCA's issuance of a permit does not obligate the MPCA to enforce local laws, rules or plans beyond that authorized by Minnesota Statutes.

**1.11.9 Performance**

1.11.10 The permittee shall perform the actions or conduct the activity authorized by the permit in accordance with the submittals and specifications approved by the MPCA and in compliance with the conditions of the permit.

**1.11.11 Operation and Maintenance**

1.11.12 The permittee shall at all times properly operate and maintain the facilities and systems of treatment and control and the appurtenances related to them which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible.

**1.11.13 Honesty**

1.11.14 The permittee may not knowingly make a false or misleading statement, representation, or certification in a record, report, plan, or other document required to be submitted to the MPCA or the commissioner by the permit. The permittee shall immediately upon discovery report to the commissioner an error or omission in these records, reports, submittals or other documents.

**1.11.15 Timely Information Submittal**

1.11.16 The permittee shall, when requested by the commissioner, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activity covered by the permit.

**1.11.17 Access**

1.11.18 When authorized by Minn. Stat. 115.04, 115B.17, subd. 4 and 116.091, and upon presentation of proper credentials, the MPCA, or an authorized employee or agent of the MPCA, shall be allowed by the permittee to enter at reasonable times upon the property of the permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit.

**1.11.19 Discovery of Noncompliance**



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**General Conditions**

1.11.20 If the permittee discovers, through any means, including notification by the MPCA, that noncompliance with a condition of the permit has occurred, the permittee shall take all reasonable steps to minimize the adverse impacts on human health, public drinking water supplies, or the environment resulting from the noncompliance.

**1.11.21 Notification of Noncompliance**

1.11.22 If the permittee discovers that noncompliance with a condition of the permit has occurred which could endanger human health, public drinking water supplies, or the environment, the permittee shall, within 24 hours of the discovery of the noncompliance, orally notify the commissioner. Within five (5) days of the discovery of the noncompliance, the permittee shall submit to the commissioner a written description of the noncompliance; the cause of the noncompliance; the exact dates of the period of the noncompliance; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

**1.11.23 Reporting of Noncompliance**

1.11.24 The permittee shall report noncompliance with the permit not reported in the Notification of Noncompliance subheading above by submitting the information listed in Notification of Noncompliance within 30 days of the discovery of the noncompliance.

**1.11.25 Alterations**

1.11.26 The permittee shall give advance notice to the commissioner as soon as possible of planned physical alterations or additions to the permitted facility or activity that may result in noncompliance with a Minnesota or federal pollution control statute or rule or condition of the permit.

**1.11.27 Transferability**

1.11.28 The permit is not transferable to any person without the express written approval of the MPCA after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit.

**1.11.29 Responsibility for Damage**

1.11.30 The permit authorizes the permittee to perform the activities described in the permit under the conditions of the permit. In issuing the permit, the state and MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under the permit. To the extent the state and MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act, Minn. Stat. 3.736.

**1.11.31 Modifying or Revoking Permit**

1.11.32 The commissioner may commence proceedings to modify or revoke this permit during its terms if cause exists under Minn. R. 7001.0170 to 7001.0180.

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**General Conditions**

**1.11.33 Severability**

1.11.34 The provisions of this permit are severable. If any provision of this permit is held invalid, the remainder of this permit shall not be affected.

**1.11.35 Extensions**

1.11.36 The permittee may request an extension of the dates set forth in this permit including the submittal and monitoring dates. The request must include justification for requesting the extension of the date. Based on the justification, the commissioner may grant an extension.

**1.11.37 Term of Permit**

1.11.38 This permit is valid until the expiration date unless revoked or modified by the MPCA pursuant to Minn. R. 7001.0170 to 7001.0180, or allowed to continue pursuant to Minn. R. 7001.0160. To allow for adequate MPCA review time and to avoid possible termination of the permit at the time the permit expires, an application for reissuance of the permit must be submitted no later than 180 calendar days before the expiration date of the permit.

**1.11.39 Retention of Records**

1.11.40 The permittee must maintain records of all ground water monitoring data and ground water surface elevations for the active life of the facility and each waste activity and, for disposal activities, for the postclosure care period. The permittee must also maintain an operating record in accordance with Minn. R. 7035.2575 until closure of each waste activity at the facility.

**1.11.41 As-built Plans**

1.11.42 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has received a letter and as-built plans signed by the owner or operator and by an engineer registered in Minnesota certifying that the facility or modified portion of the facility has been constructed in compliance with the conditions of the permit.

**1.11.43 Construction Certification**

1.11.44 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has inspected the new facility or modified portion of the facility and has provided the owner or operator with a letter stating that the certification submitted is complete and approved.

**1.11.45 Financial Assurance**

1.11.46 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has approved the financial assurance amount and instrument to be used for the facility in accordance with Minn. R. 7035.2665 to 7035.2805.

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**1.12 Specific Conditions**

**1.12.1 Major Appliances**

1.12.2 The Permittee shall provide a separate storage area for the transfer of major appliances, as defined in Minn. Stat. 115A.03, such that damage to the units is minimized during handling. The Permittee must ensure that the proper removal of hazardous components and refrigerant gases is performed by a certified appliance processor. The Permittee must transfer all appliances off-site at least annually, with the number of appliances recycled and the destination included in the annual report.

**1.12.3 Lead Acid Batteries**

1.12.4 The Permittee shall provide a storage area for lead acid batteries such that damage to the units is minimized during handling. The storage area must include a secondary containment device to contain any releases.

**1.12.5 Electronics**

1.12.6 The Permittee shall provide a separate storage area for the storage and transfer of electronics. As used in this Permit, "electronics" includes but is not limited to televisions, computer monitors, computers, microwaves, and other devices that have wiring, circuitry, circuit boards, batteries, and other similar components. The Permittee shall store and manage electronics indoors and in a manner that prevents damage and the release of hazardous components. The Permittee must transport electronics stored at the Facility off-site for recycling or disposal at an appropriate facility at least annually and the Permittee shall note the volume and the destination in the annual report.

**1.12.7 Scrap Metal**

1.12.8 The Permittee shall provide a separate storage area for the storage of scrap metal. The Permittee shall manage all scrap metal within the designated area on site.

**1.12.9 Tires**

1.12.10 The Permittee shall identify a designated waste tire storage area. The Permittee may store a maximum of 2,000 passenger tire equivalents (PTE) in this area.

1.12.11 The Permittee shall maintain all tire piles in a manner that keeps the piles free of vegetation, mosquitoes and rodents.

1.12.12 The Permittee shall divert surface water drainage around and away from the waste tire storage area.

1.12.13 The Permittee shall not conduct any operations involving the use of open flames, blow torches, or highly flammable substances within 50 feet of a waste tire pile.

1.12.14 The Permittee shall arrange for the transportation and disposal of the waste tires by a licensed tire hauler. The Permittee shall include the number of tires transferred, the licensed hauler's MPCA transporter identification number, and the tire disposal destination in the Facility's annual report.

**1.12.15 Concrete**

1.12.16 The Permittee may provide a separate storage area for the storage of concrete. If the Permittee elects to store concrete in a separate area, the Permittee must crush the concrete on a regular basis, not to exceed three years.

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## **2. MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

### **2.1 Design and Construction Criteria**

#### **2.1.1 Location of Disposal Area**

2.1.2 The disposal area must be located in accordance with Minn. R. 7035.2555 and Minn. R. 7035.2815, subp. 2.

#### **2.1.3 Construction**

2.1.4 At a minimum, all major design features must incorporate the construction requirements of Minn. R. 7035.2815, subp. 12. into the project specifications.

#### **2.1.5 Design**

2.1.6 The disposal area must be designed in accordance with Minn. R. 7035.2815, subp. 5.

#### **2.1.7 Liner System**

2.1.8 The liner system must comply with the requirements of Minn. R. 7035.2815, subp. 7.

2.1.9 Whenever possible, the synthetic membrane in the liner system must be textured when used in the construction of the liner side slopes.

#### **2.1.10 Cover System**

2.1.11 The cover system must comply with the requirements of Minn. R. 7035.2815, subp. 6, items D and E.

#### **2.1.12 Temporary Cover System**

2.1.13 The commissioner shall allow for the use of a temporary cover system during leachate recirculation. The temporary cover system must comply with the requirements of Minn. R. 7035.2815, subp. 6, items D(2), D(6), D(9) and E.

2.1.14 A temporary cover consisting of natural soil materials must be at least two feet thick.

2.1.15 The temporary cover system must be evaluated for its efficiency in landfill gas collection.

#### **2.1.16 Cover and Liner Materials Evaluation**

2.1.17 Soils intended for use as cover or liner material must be evaluated in accordance with Minn. R. 7035.2815, subp. 8.

#### **2.1.18 Leachate Detection, Collection, and Treatment System**

2.1.19 The disposal area must include a leachate detection, collection, and on-site or off-site treatment system in accordance with Minn. R. 7035.2815, subp. 9.

2.1.20 Leachate recirculation is authorized in lined Areas III and IV.

2.1.21 The leachate collection system must include a pumping system, flow measurement devices and head level measurement devices.

#### **2.1.22 Gas Monitoring, Collection, and Treatment System**

2.1.23 The permittee must design a gas monitoring, collection, and treatment system to meet the requirements of Minn. R. 7035.2815, subp. 11.

#### **2.1.24 Water Monitoring System**

2.1.25 The permittee must design and install a water monitoring system in compliance with Minn. R. 7035.2815, subp. 10.

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

## 2.2 Operating and Maintenance Criteria

### 2.2.1 Frost Protection

2.2.2 The permittee must place at least six feet of solid waste, or an MPCA approved alternative insulating material, on any newly constructed liner by December 31 of each year. If an alternative insulating material is utilized, the permittee must install thermo couples in the newly lined area, and must maintain the approved thickness of the insulating material until six feet of solid waste has been placed on the liner. If an alternative insulating material is utilized, the permittee must remove the material prior to the placement of solid waste to prevent biofouling of the drainage layer. No disposal may take place on uncovered areas after December 31 without testing the liner integrity and obtaining written approval from the commissioner.

### 2.2.3 Run-On / Run-Off Control System

2.2.4 The permittee must maintain a run-on control system to prevent flow onto any waste activity area and a run-off control system to collect and control flow from the waste activity area for at least the water volume resulting from a 24-hour, 25-year storm.

### 2.2.5 Phase Development

2.2.6 The permittee must develop the site in phases according to the approved phase development plans and specifications. Each phase must contain individual cells that will provide for filling in a manner to achieve final waste elevations as rapidly as possible.

### 2.2.7 Staking of Fill Phases

2.2.8 The permittee must outline each fill phase with grade stakes or another marking method before the deposition of any waste.

### 2.2.9 Spreading and Compacting

2.2.10 The permittee must limit the disposal of municipal solid waste to as small an area as practical and with appropriate facilities to confine wind-blown material within the area.

2.2.11 The permittee must spread and compact solid waste as densely as practicable in layers which are two feet or less in depth before compaction.

### 2.2.12 Grading

2.2.13 The permittee must place and compact the mixed municipal solid waste at a maximum three-to-one slope to promote drainage off of the fill area, and to allow for the adequate application of intermittent and intermediate cover.

### 2.2.14 Cover Material Stockpile

2.2.15 The permittee must maintain suitable cover material at the site. If suitable cover material is not available on-site, cover material must be delivered to and stockpiled at the site. The commissioner reserves the right to alter the type of cover material and the method of placement if problems exist.

### 2.2.16 Intermittent Cover

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

**Operating and Maintenance Criteria**

2.2.17 The permittee must place an intermittent cover upon all exposed solid waste daily. The cover depth must be sufficient to cover all waste completely and must be at least six inches if soil or similar material is used. The permittee may also utilize an Alternative Daily Cover (ADC) as approved by the commissioner in writing. However, the commissioner reserves the right to withdraw approval if problems exist resulting from the use of the ADC.

The permittee may utilize floor fines from the Prairie Lakes Municipal Authority Waste-to-Energy facility mixed with industrial waste wood chips for daily cover. Should the odors, workability, tracking, or other deleterious effects become evident from the use of this material, then the permittee shall not use it for cover.

The permittee may utilize American Crystal Sugar ash mixed 50:50 with soil as ADC.

The permittee may utilize contaminated soils that do not exceed the concentration limits for ADC in the approved ISWMP.

The permittee may use Spray-on ADC, and may include latex paint in the mix, The spray-on ADC must be used in accordance with the MPCA's Alternative Daily Cover Fact Sheet dated May 2009, or as amended.

**2.2.18 Intermediate Cover**

2.2.19 The permittee must place intermediate cover on all filled surfaces of the facility where no additional solid waste will be deposited within 30 days. The intermediate cover must consist of compacted material of sufficient depth, at least 12 inches if soil or similar material is used, to cover the waste completely, and graded to prevent surface water ponding.

**2.2.20 Temporary Cover System Maintenance**

2.2.21 If a temporary cover system is utilized over leachate recirculation cells or phases, then the temporary cover system must be maintained with a good stand of vegetation. Any erosion channels in the temporary cover shall be filled within two weeks after the storm event by replacing soil and reseeding.

**2.2.22 Final Cover**

2.2.23 The permittee must begin closure of each fill phase within 30 days after reaching final permitted waste elevations. Each fill phase, upon reaching final permitted waste elevation must be covered in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 6.

2.2.24 The permittee must maintain the final cover system on all closed portions of the active waste disposal area in accordance with Minn. R. 7035.2815, subp. 6, items D and E.

**2.2.25 Surface Water Drainage**

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**Operating and Maintenance Criteria**

2.2.26 The permittee must divert surface water drainage around and away from the site operating area. Slopes greater than 200 feet must include drainage ways and design features to prevent erosion.

**2.2.27 Water Monitoring System**

2.2.28 The permittee must maintain the integrity and functionality of the water monitoring network. The permittee must operate and maintain a water monitoring system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 10.

**2.2.29 Leachate System**

2.2.30 The permittee must maintain the integrity and functionality of the leachate detection, collection, and on-site or off-site treatment system. The permittee must also operate and maintain the leachate detection, collection, and on-site or off-site treatment system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 13.

The permittee must maintain less than one foot of head on the liner system immediately adjacent to the sump area.

**2.2.31 Gas Monitoring, Collection and Treatment System**

2.2.32 The permittee must maintain a gas management system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 11. The concentration of any explosive gas must not exceed its lower explosion limit at the property boundary or 25 percent of its lower explosion limit in and around facility structures or any other on-site monitoring point.

**2.2.33 Permanent Marking of Fill Boundaries**

2.2.34 The permittee must identify all trenches or fill areas with permanent markers.

**2.2.35 Leachate Recirculation**

2.2.36 Leachate must be recirculated in a manner that allows for dosing and resting cycles.

2.2.37 Surface application or subsurface application shall not commence unless 20 feet of waste is covering the entire phase receiving the leachate. A phase for the purposes of leachate recirculation is the area vertically above the liner where all leachate within the area is collected to a sump for removal from the Phase.

2.2.38 Surface application of leachate shall be permitted over waste before the application of daily or intermediate cover and during operating hours, but shall not be conducted when customers are present at the landfill working face, and shall not be conducted over intermediate cover soils.

Surface application of leachate onto soil or alternative daily cover materials shall be allowed only if done immediately before waste placement for the day, and not on daily cover material at the end of the day.

Surface application of leachate shall not occur on frozen waste.

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

**Operating and Maintenance Criteria**

- 2.2.39 The quantity and rate of leachate recirculated must not cause the waste moisture content of any Phase to exceed 35% by weight. The waste moisture content for each phase shall be determined using the EPA water balance methods. The permittee shall complete the water balance annually for the landfill phases that have not exceeded 35% moisture content. The permittee shall complete the water balance quarterly for any phase that exceeds 30% moisture content.
- 2.2.40 The leachate collection and distribution piping must be cleaned/flushed at least annually, or in accordance with the approved schedule.
- 2.2.41 The permittee must maintain the integrity and functionality of the leachate detection, collection, and on-site or off-site treatment system. The permittee must also operate and maintain the leachate detection, collection, and on-site or off-site treatment system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 13.
- 2.2.42 The quantity and rate of leachate recirculation, with consideration of precipitation, must not result in an exceedance of one foot of head over the liner. Head measuring devices must be checked manually on at least an annual basis and re-calibrated or adjusted as necessary.

**2.2.43 Leachate Recirculation Inspections**

- 2.2.44 The dedicated operator(s) must inspect the recirculation and leachate land application areas in accordance with the approved inspection schedule. The results of these inspections must be recorded in the facility's log book kept on site. Any problems detected during the inspection must be addressed immediately and repaired within two weeks of discovery.

**2.2.45 Cessation of Leachate Recirculation**

- 2.2.46 Temporary Cessation: The permittee must temporarily cease the recirculation of leachate if the liner shows signs of leakage, if surface seeps develop, if leachate head levels exceed one foot, or if unresolved odor issues persist. The MPCA must be notified within 24 hours after ceasing recirculation activities. After ceasing recirculation of leachate and notifying the MPCA, the permittee must follow the steps identified in the approved contingency action plan to correct the problem. Leachate recirculation activities may not resume without authorization from the MPCA.

**2.3 Monitoring Criteria**

**2.3.1 Hydrogeologic Evaluation**

- 2.3.2 The permittee must complete a hydrogeologic evaluation in accordance with Minn. R. 7035.2815, subp. 3.

**2.3.3 Compliance Boundary**

- 2.3.4 The permittee must establish compliance boundaries according to Minn. R. 7035.2815, subp. 4, items A through E.

**2.3.5 Ground Water Performance Standards**



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**Monitoring Criteria**

- 2.3.6 The permittee must design, construct, operate, and maintain the disposal area to achieve compliance with the analytical limits set forth in the Limits Table(s) of this permit. These limits are based upon the Minnesota Department of Health, Health Risk Limits (HRL), and replace the standards listed in Minn. R. 7035.2815, subp. 4, item F, as provided for in Minn. R. 7035.2815, subp. 4, item H.
- 2.3.7 Exceedence of Intervention Limit**
- 2.3.8 If an intervention limit established in this permit is exceeded, the permittee must take the actions listed in Minn. R. 7035.2815, subp. 4, item G.
- 2.3.9 Ground Water Quality Sampling and Analysis**
- 2.3.10 Ground Water quality sampling and analysis must be conducted in accordance with Minn. R. 7035.2815 subp. 14 and must include the monitoring stations identified in the Limits Table(s) of this permit. Sampling must be conducted according to the schedule shown in the Limits Table(s) of this permit.
- 2.3.11 Background Water Quality Monitoring**
- 2.3.12 The permittee must determine the initial water quality in new monitoring points and monitoring systems, and perform background monitoring in accordance with Minn. R. 7035.2815, subp. 14, item E.
- 2.3.13 Lysimeter Monitoring**
- 2.3.14 The permittee shall monitor the interstitial space between the walls of the leachate storage tanks for the presence of moisture at least once per year.
- 2.3.15 The permittee shall monitor the leak detection lysimeters in the Spring and Fall each year. The permittee has found moisture in its lysimeters in Area III and shall continue to monitor and investigate to determine whether the moisture is due to ground water infiltration or leachate leakage from the liner.
- 2.3.16 Leachate Head Level Monitoring**
- 2.3.17 Leachate head level monitoring must be conducted on at least a weekly basis in the recirculation area in accordance with Minn. R. 7035.2815, subp. 9, item D and must include the monitoring stations identified in the Limits Table(s) of this permit or the approved Sampling Plan.
- 2.3.18 Leachate Quality Sampling and Analysis**
- 2.3.19 Leachate quality sampling and analysis must be conducted in accordance with Minn. R. 7035.2815 subp. 14 and must include the monitoring stations identified in the Limits Table(s) of this permit. Sampling must be conducted according to the schedule shown in the Limits Table(s) of this permit.
- 2.3.20 Surface Water Quality Sampling and Analysis**
- 2.3.21 Surface Water quality sampling and analysis must be conducted in accordance with Minn. R. 7035.2815 subp. 14 and must include the monitoring stations identified in the Limits Table(s) of this permit. Sampling must be conducted according to the schedule shown in the Limits Table(s) of this permit.
- 2.3.22 Ambient Air Monitoring**

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**Monitoring Criteria**

2.3.23 Ambient air monitoring must be conducted on at least a quarterly basis in the recirculation area in accordance with the approved plans. A map of the walking route used for ambient air monitoring must be included with the submittal of the sampling results.

**2.3.24 Gas Monitoring**

2.3.25 The permittee must implement a gas monitoring program and conduct quarterly methane monitoring, at a minimum, in and around facility structures and on the facility property boundary in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR 258.23.

2.3.26 The permittee shall monitor each vertical or horizontal landfill gas well or leachate recirculation lateral exiting the landfill that is connected to the active landfill gas extraction system quarterly for the landfill gas production in cubic feet per minute. Measurement of flow must be conducted using an orifice plate, pitot tube or mass flow meter.

2.3.27 The permittee shall monitor landfill gas at the active landfill gas extraction blower quarterly for percent methane, percent oxygen, total gas production in cubic feet per minute and temperature.

Oxygen levels greater than 5%, which is a high oxygen level, shall be reported to the MPCA in the annual report with a discussion of the possible cause(s) and corrective actions that were taken. The operator shall investigate the cause of the high oxygen levels immediately upon discovery. The contingency action plan shall be updated to address investigating and repairing systems that could be pathways for air intrusion into the landfill due to the active gas control system upon occurrence of a high oxygen level at the blower.

Temperatures greater than 140 degrees Fahrenheit, which is a high temperature, shall be reported to the MPCA in the annual report with a discussion of the possible cause(s) and corrective actions that were taken. The operator shall investigate the cause of the high temperature landfill gas immediately upon discovery. The contingency action plan shall be updated upon occurrence of a high temperature reading at the blower to address the investigation of possible landfill fires and landfill component damage that may have been caused by high landfill temperatures.

Suspected fires or structural failures due to high temperatures shall be reported to the MPCA as contingency events within 24 hours of discovery .

**2.3.28 Settlement Monitoring**

2.3.29 The permittee must determine the amount of settlement within the recirculation area on at least an annual basis.

**2.3.30 Monitoring Protocol**

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

**Monitoring Criteria**

- 2.3.31 The permittee must develop and keep current a written monitoring protocol for the disposal area according to Minn. R. 7035.2815, subp. 14, item G and must ensure the protocol is followed during sampling and sample analysis.

**2.4 Reporting Criteria**

**2.4.1 Routine Monitoring Reporting**

- 2.4.2 The permittee shall submit routine monitoring results accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P. The permittee shall submit the monitoring results to the commissioner according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**2.4.3 Annual Monitoring Evaluation**

- 2.4.4 The permittee shall submit an annual water and leachate monitoring evaluation report in accordance with Minn. R. 7035.2585 and 7035.2815, subp. 14, item Q. The permittee shall submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**2.5 Contingency Action Criteria**

**2.5.1 Contingency Action**

- 2.5.2 If leachate seeps develop on internal slopes of the facility, the permittee must follow the steps identified in the approved contingency action plan to adjust the loading rate in the recirculation cell(s).
- 2.5.3 The permittee must permanently cease recirculation of leachate should unacceptable or unresolved conditions persist.

**2.6 Closure Criteria**

**2.6.1 Closure Procedures**

- 2.6.2 Unless a temporary cover is employed, the permittee must complete closure activities in accordance with the approved closure plan within 180 days following the beginning of closure as specified in 40 CFR 258.60 (f) and (g).
- 2.6.3 In areas where a temporary cover has been employed, final cover construction must be implemented within 30 days from the date at which the permittee ceases recirculation of leachate. Final cover construction must be completed within 180 days following the beginning of closure.

**2.7 Financial Criteria**

**2.7.1 Cost Estimates**

- 2.7.2 If a temporary cover is employed, the permittee must increase its closure cost estimate to include all open areas and all areas that have a temporary cover system.

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 003**

**2.8 Specific Conditions**

- 2.8.1 Within 90 days of permit issuance the permittee must submit to the MPCA an up-dated Sampling and Analysis Plan for review and approval.

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**3. SOLID WASTE STORAGE AREA ST 001**

**3.1 Design and Construction Criteria**

**3.1.1 Location Standards**

3.1.2 The permittee must meet the location requirements in accordance with Minn. R. 7035.2855, subp. 2.

**3.2 Operating and Maintenance Criteria**

**3.2.1 Surface Water Management**

3.2.2 The Permittee shall operate and maintain a run-on control system capable of preventing flow onto the storage area. The Permittee must also operate and maintain a stormwater management system capable of collecting and controlling run-off from the storage area. Both run-on and run-off systems must be capable of controlling at least the water volume resulting from a 24 hour, ten year storm.

**3.2.3 Particulate Matter Management**

3.2.4 The Permittee shall cover or otherwise manage the solid waste to contain any particulate matter that may be subject to wind dispersion.

**3.3 Closure Criteria**

**3.3.1 Closure**

3.3.2 The permittee must properly remove and dispose or recycle all solid waste and contaminated portions of the storage area accordance with Minn. R. 7035.2855, subp. 6

# LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-1 , C-10 , TW-1 , TW-2 , TW-3 , W-15

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring	This well sampled every other year in odd years
1,1,1-Trichloroethane	715-56	-	ug/L	Spring	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	-	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring	
1,2-Dichloropropane	788-75	-	ug/L	Spring	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	-	ug/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring	
Benzene	714-32	-	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring	

# LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-1 , C-10 , TW-1 , TW-2 , TW-3 , W-15

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Bromoform	752-52	-	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring	
Carbon tetrachloride	562-35	-	ug/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Spring	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	-	ug/L	Spring	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	-	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Spring	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	-	ug/L	Spring	
Ethyl ether	602-97	-	ug/L	Spring	
Hexachlorobutadiene	876-83	-	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring	
Naphthalene	912-03	-	ug/L	Spring	
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
pH	C-0-06	-	SU	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	Take SWL twice a year, every year

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-1 , C-10 , TW-1 , TW-2 , TW-3 , W-15

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Styrene	100-42-5	-	ug/L	Spring	
Temperature	T-1-21	-	Deg C	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Spring	
Tetrahydrofuran	109-99-9	-	ug/L	Spring	
Toluene	108-88-3	-	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	-	ug/L	Spring	
Trichlorofluoromethane	756-94	-	ug/L	Spring	
Turbidity, Field	G-0-19	-	NTU	Spring	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Spring	



## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
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 Permit: SW-34

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 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

C-11 , W-1 , W-102B , W-104B , W-106B , W-12 , W-13 , W-201B , W-202B , W-203B , W-2B , W-3 , W-301B , W-302B

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Spring	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Spring	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Spring	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	10.0	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	0.00075	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	1.0	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	150.0	ug/L	Spring	
1,2-Dichloroethane	107-06-2	0.25	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Spring	
1,2-Dichloropropane	788-75	1.25	ug/L	Spring	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	1,000.0	ug/L	Spring	
Alkalinity, Bicarbonate as CaCO3	381-23-26	-	meq/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Spring	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring	
Arsenic	744-03-82	2.5	ug/L	Spring	
Barium	744-03-93	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

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 Permit: SW-34

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 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

C-11 , W-1 , W-102B , W-104B , W-106B , W-12 , W-13 , W-201B , W-202B , W-203B , W-2B , W-3 , W-301B , W-302B

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Benzene	714-32	0.5	ug/L	Spring	
Boron	744-04-28	250.0	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Spring	
Bromoform	752-52	10.0	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Spring	
Cadmium	744-04-39	1.0	ug/L	Spring	
Calcium	744-07-02	-	ug/L	Spring	
Carbon tetrachloride	562-35	0.25	ug/L	Spring	
Chloride	168-87-006	-	mg/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Spring	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	7.5	ug/L	Spring	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
Chromium	744-04-73	25.0	ug/L	Spring	If total Cr > 100 ug/L must speciate for Cr+6
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Copper	744-05-08	-	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Spring	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	12.5	ug/L	Spring	
Ethyl ether	602-97	50.0	ug/L	Spring	
Hexachlorobutadiene	876-83	0.25	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

C-11 , W-1 , W-102B , W-104B , W-106B , W-12 , W-13 , W-201B , W-202B , W-203B , W-2B , W-3 , W-301B , W-302B

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Iron	743-98-96	-	ug/L	Spring	
Lead	743-99-21	3.75	ug/L	Spring	
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	25.0	ug/L	Spring	
Mercury	743-99-76	0.5	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Spring	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	15.0	ug/L	Spring	
Naphthalene	912-03	17.5	ug/L	Spring	
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
Nickel	744-00-20	25.0	ug/L	Spring	
Nitrate (as Nitrogen)	147-97-558	2,500.0	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
pH	C-0-06	-	SU	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
Potassium	744-00-97	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Selenium	778-24-92	7.5	ug/L	Spring	
Sodium	744-02-35	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	25.0	ug/L	Spring	
Sulfate	148-08-798	-	mg/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Spring	
Tetrahydrofuran	109-99-9	25.0	ug/L	Spring	
Toluene	108-88-3	50.0	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	0.1	ug/L	Spring	
Trichlorofluoromethane	756-94	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-11 , W-1 , W-102B , W-104B , W-106B , W-12 , W-13 , W-201B , W-202B , W-203B , W-2B , W-3 , W-301B , W-302B

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Turbidity, Field	G-0-19	-	NTU	Spring	
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Spring	
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Spring	
Zinc	744-06-66	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
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 Permit: SW-34

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Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-12 , C-13 , C-2 , C-3 , J-2 , W-109 , W-112

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-4 , C-8 , C-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	13.0	ug/L	Spring	Surface Water Standard
1,1,1-Trichloroethane	715-56	329.0	ug/L	Spring	Surface Water Standard
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	-	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring	
1,2-Dichloropropane	788-75	-	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	-	ug/L	Spring	
Alkalinity, Bicarbonate as CaCO3	381-23-26	-	meq/L	Spring	Sampled every other years in odd years
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring	
Appearance	1	-	N/A	Spring	
Arsenic	744-03-82	53.0	ug/L	Spring	Surface Water Standard
Benzene	714-32	114.0	ug/L	Spring	Surface Water Standard

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-4 , C-8 , C-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Boron	744-04-28	-	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring	
Bromoform	752-52	-	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring	
Cadmium	744-04-39	1.1	ug/L	Spring	Surface Water Standard
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	5.9	ug/L	Spring	Surface Water Standard
Chloride	168-87-006	230.0	mg/L	Spring	Surface Water Standard
Chlorobenzene; (monochlorobenzene)	108-90-7	20.0	ug/L	Spring	Surface Water Standard
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	155.0	ug/L	Spring	Surface Water Standard
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Copper	744-05-08	9.8	ug/L	Spring	Surface Water Standard
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	-	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	1,940.0	ug/L	Spring	Surface Water Standard
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	-	ug/L	Spring	
Ethyl ether	602-97	-	ug/L	Spring	
Hexachlorobutadiene	876-83	-	ug/L	Spring	
Lead	743-99-21	3.2	ug/L	Spring	Surface Water Standard
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	-	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 C-4 , C-8 , C-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Mercury	743-99-76	0.0069	ug/L	Spring	Surface Water Standard
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring	
Naphthalene	912-03	81.0	ug/L	Spring	Surface Water Standard
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
pH	C-0-06	-	SU	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	-	ug/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	5.0	ug/L	Spring	Surface Water Standard
Tetrahydrofuran	109-99-9	-	ug/L	Spring	
Toluene	108-88-3	-	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	120.0	ug/L	Spring	Surface Water Standard
Trichlorofluoromethane	756-94	-	ug/L	Spring	
Turbidity, Field	G-0-19	-	NTU	Spring	
Vinyl chloride; (chloroethene)	750-14	9.2	ug/L	Spring	Surface Water Standard
Xylenes (mixture of o,m,p)	133-02-07	166.0	ug/L	Spring	Surface Water Standard



## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Deustcher residence , Ron Ekre , Weaver Residentail Well

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Spring	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Spring	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Spring	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	10.0	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	0.00075	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	1.0	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	150.0	ug/L	Spring	
1,2-Dichloroethane	107-06-2	0.25	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Spring	
1,2-Dichloropropane	788-75	1.25	ug/L	Spring	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	1,000.0	ug/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Spring	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring	
Arsenic	744-03-82	2.5	ug/L	Spring	
Barium	744-03-93	500.0	ug/L	Spring	
Benzene	714-32	0.5	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Deustcher residence , Ron Ekre , Weaver Residentail Well

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Boron	744-04-28	250.0	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Spring	
Bromoform	752-52	10.0	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Spring	
Cadmium	744-04-39	1.0	ug/L	Spring	
Calcium	744-07-02	-	ug/L	Spring	
Carbon tetrachloride	562-35	0.25	ug/L	Spring	
Chloride	168-87-006	-	mg/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Spring	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	7.5	ug/L	Spring	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
Chromium	744-04-73	25.0	ug/L	Spring	If total Cr > 100 ug/L must speciate for Cr+6
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Copper	744-05-08	-	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Spring	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	12.5	ug/L	Spring	
Ethyl ether	602-97	50.0	ug/L	Spring	
Hexachlorobutadiene	876-83	0.25	ug/L	Spring	
Iron	743-98-96	-	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Deustcher residence , Ron Ekre , Weaver Residentail Well

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Lead	743-99-21	3.75	ug/L	Spring	
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	25.0	ug/L	Spring	
Mercury	743-99-76	0.5	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Spring	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	15.0	ug/L	Spring	
Naphthalene	912-03	17.5	ug/L	Spring	
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
Nickel	744-00-20	25.0	ug/L	Spring	
Nitrate (as Nitrogen)	147-97-558	2,500.0	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
pH	C-0-06	-	SU	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
Potassium	744-00-97	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Selenium	778-24-92	7.5	ug/L	Spring	
Sodium	744-02-35	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring	
Styrene	100-42-5	25.0	ug/L	Spring	
Sulfate	148-08-798	-	mg/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Spring	
Tetrahydrofuran	109-99-9	25.0	ug/L	Spring	
Toluene	108-88-3	50.0	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	0.1	ug/L	Spring	
Trichlorofluoromethane	756-94	500.0	ug/L	Spring	
Turbidity, Field	G-0-19	-	NTU	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Deustcher residence , Ron Ekre , Weaver Residentail Well

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Spring	
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Spring	
Zinc	744-06-66	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

GP-1 , GP-10 , GP-11 , GP-12 , GP-2 , GP-4AR , GP-5A , GP-6A , GP-7A , GP-8A , GP-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
LEL	PCA-01-0	100.0	%	Quarterly	
Methane Gas	PCA-01-1	5.0	%	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 GP-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
LEL	PCA-01-0	25.0	%	Quarterly	
Methane Gas	PCA-01-1	1.25	%	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Leachate Piezometer 1 , Leachate Piezometer 2 , Leachate Piezometer 3 , Leachate Riser 1/2 , Leachate Riser 3/4

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Leachate Tank #1 , Leachate Tank #2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Quarterly	
1,1,1-Trichloroethane	715-56	-	ug/L	Quarterly	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Quarterly	
1,1,2-Trichloroethane	790-05	-	ug/L	Quarterly	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Quarterly	
1,1-Dichloroethane	753-43	-	ug/L	Quarterly	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Quarterly	
1,1-Dichloropropene	563-58-6	-	ug/L	Quarterly	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Quarterly	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Quarterly	
1,2,3-Trichloropropane	961-84	-	ug/L	Quarterly	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Quarterly	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Quarterly	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Quarterly	
1,2-Dichlorobenzene (orth-)	955-01	-	ug/L	Quarterly	
1,2-Dichloroethane	107-06-2	-	ug/L	Quarterly	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Quarterly	
1,2-Dichloropropane	788-75	-	ug/L	Quarterly	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Quarterly	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Quarterly	
1,3-Dichloropropane	142-28-9	-	ug/L	Quarterly	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Quarterly	
2,2-Dichloropropane	594-20-7	-	ug/L	Quarterly	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Quarterly	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Quarterly	
Acetone	676-41	-	ug/L	Quarterly	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Quarterly	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Quarterly	
Aluminum	742-99-05	-	ug/L	Quarterly	
Ammonia Nitrogen	766-44-17	-	mg/L	Quarterly	
Appearance	1	-	N/A	Quarterly	



## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
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 Spring: Mar-28 to May-14  
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 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Leachate Tank #1 , Leachate Tank #2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Arsenic	744-03-82	-	ug/L	Quarterly	
Barium	744-03-93	-	ug/L	Quarterly	
Benzene	714-32	-	ug/L	Quarterly	
Biochemical Oxygen Demand (BOD)	C-0-02	-	mg/L	Quarterly	
Boron	744-04-28	-	ug/L	Quarterly	
Bromobenzene	108-86-1	-	ug/L	Quarterly	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Quarterly	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Quarterly	
Bromoform	752-52	-	ug/L	Quarterly	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Quarterly	
Cadmium	744-04-39	-	ug/L	Quarterly	
Calcium	744-07-02	-	mg/L	Quarterly	
Carbon tetrachloride	562-35	-	ug/L	Quarterly	
Cation-Anion Balance	F84-1 -	-	%	Quarterly	
Chemical Oxygen Demand (COD)	C-0-04	-	mg/L	Quarterly	
Chloride	168-87-006	-	mg/L	Quarterly	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Quarterly	
Chlorodibromomethane; (Dibromochloromethane)	124-48-1	-	ug/L	Quarterly	
Chloroethane	750-03	-	ug/L	Quarterly	
Chloroform	676-63	-	ug/L	Quarterly	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Quarterly	
Chromium	744-04-73	-	ug/L	Quarterly	If total Cr > 100 ug/L must speciate for Cr +6
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Quarterly	
Cobalt	744-04-84	-	ug/L	Quarterly	
Copper	744-05-08	-	ug/L	Quarterly	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Quarterly	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Quarterly	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Quarterly	
Dichlorodifluoromethane	757-18	-	ug/L	Quarterly	
Dichlorofluoromethane	754-34	-	ug/L	Quarterly	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Leachate Tank #1 , Leachate Tank #2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Dissolved Solids, Total	C-0-10	-	mg/L	Quarterly	
Ethyl benzene	100-41-4	-	ug/L	Quarterly	
Ethyl ether	602-97	-	ug/L	Quarterly	
Hexachlorobutadiene	876-83	-	ug/L	Quarterly	
Iron	743-98-96	-	ug/L	Quarterly	
Lead	743-99-21	-	ug/L	Quarterly	
Magnesium	743-99-54	-	ug/L	Quarterly	
Manganese	743-99-65	-	ug/L	Quarterly	
Mercury	743-99-76	-	ug/L	Quarterly	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Quarterly	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Quarterly	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Quarterly	
Naphthalene	912-03	-	ug/L	Quarterly	
n-Butyl Benzene	104-51-8	-	ug/L	Quarterly	
Nitrate (as Nitrogen)	147-97-558	-	ug/L	Quarterly	
n-Propyl benzene	103-65-1	-	ug/L	Quarterly	
pH	C-0-06	-	SU	Quarterly	
p-Isopropyltoluene	998-76	-	ug/L	Quarterly	
Potassium	744-00-97	-	ug/L	Quarterly	
sec-Butyl Benzene	135-98-8	-	ug/L	Quarterly	
Selenium	778-24-92	-	ug/L	Quarterly	
Silver	744-02-24	-	ug/L	Quarterly	
Sodium	744-02-35	-	ug/L	Quarterly	
Specific Conductance	C-0-11	-	umho/cm	Quarterly	
Static Water Level (Elevation, MSL)	PCA-00-1	-	gallons	Quarterly	Volume of leachate removed
Styrene	100-42-5	-	ug/L	Quarterly	
Sulfate	148-08-798	-	mg/L	Quarterly	
Suspended Solids, Total	C-0-09	-	mg/L	Quarterly	
Temperature	T-1-21	-	Deg C	Quarterly	
tert-Butyl Benzene	980-66	-	ug/L	Quarterly	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 Leachate Tank #1 , Leachate Tank #2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Tetrahydrofuran	109-99-9	-	ug/L	Quarterly	
Thallium	744-02-80	-	ug/L	Quarterly	
Toluene	108-88-3	-	ug/L	Quarterly	
Trichloroethylene; (TCE)	790-16	-	ug/L	Quarterly	
Trichlorofluoromethane	756-94	-	ug/L	Quarterly	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Quarterly	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Quarterly	
Zinc	744-06-66	-	ug/L	Quarterly	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Lysimeter Riser A III, P1 , Lysimeter Riser A III, P2 , Lysimeter Riser A III, P3 , Lysimeter Riser A IV, P1/2 , Lysimeter Riser A IV, P3/4

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Spring and Fall	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Spring and Fall	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Spring and Fall	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Spring and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring and Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	25.0	ug/L	Spring and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring and Fall	
1,2,3-Trichloropropane	961-84	10.0	ug/L	Spring and Fall	
1,2,4-Trichlorobenzene	120-82-1	17.5	ug/L	Spring and Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Spring and Fall	
1,2-Dichlorobenzene (orth-)	955-01	150.0	ug/L	Spring and Fall	
1,2-Dichloroethane	107-06-2	1.0	ug/L	Spring and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Spring and Fall	
1,2-Dichloropropane	788-75	1.25	ug/L	Spring and Fall	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Spring and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Spring and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring and Fall	
Acetone	676-41	175.0	ug/L	Spring and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring and Fall	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Spring and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring and Fall	
Appearance	1	-	N/A	Spring and Fall	
Arsenic	744-03-82	2.5	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Lysimeter Riser A III, P1 , Lysimeter Riser A III, P2 , Lysimeter Riser A III, P3 , Lysimeter Riser A IV, P1/2 , Lysimeter Riser A IV, P3/4

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Benzene	714-32	0.5	ug/L	Spring and Fall	
Biochemical Oxygen Demand (BOD)	C-0-02	-	mg/L	Spring	
Boron	744-04-28	250.0	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Spring and Fall	
Bromoform	752-52	10.0	ug/L	Spring and Fall	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Spring and Fall	
Cadmium	744-04-39	1.0	ug/L	Spring	
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	0.75	ug/L	Spring and Fall	
Cation-Anion Balance	F84-1 -	-	%	Spring	
Chemical Oxygen Demand (COD)	C-0-04	-	mg/L	Spring and Fall	
Chloride	168-87-006	-	mg/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Spring and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Spring and Fall	
Chloroethane	750-03	-	ug/L	Spring and Fall	
Chloroform	676-63	7.5	ug/L	Spring and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring and Fall	
Chromium	744-04-73	25.0	ug/L	Spring	If total Cr > 100 ug/L must speciate for Cr +6
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring and Fall	
Copper	744-05-08	-	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Spring and Fall	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Spring and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring and Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring and Fall	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Spring and Fall	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring	
Ethyl benzene	100-41-4	12.5	ug/L	Spring and Fall	
Ethyl ether	602-97	50.0	ug/L	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

### DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

Lysimeter Riser A III, P1 , Lysimeter Riser A III, P2 , Lysimeter Riser A III, P3 , Lysimeter Riser A IV, P1/2 , Lysimeter Riser A IV, P3/4

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Hexachlorobutadiene	876-83	0.25	ug/L	Spring and Fall	
Iron	743-98-96	-	ug/L	Spring	
Lead	743-99-21	3.75	ug/L	Spring	
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	25.0	ug/L	Spring	
Mercury	743-99-76	0.5	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Spring and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Spring and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring and Fall	
Naphthalene	912-03	75.0	ug/L	Spring and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring and Fall	
Nitrate (as Nitrogen)	147-97-558	2,500.0	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring and Fall	
pH	C-0-06	-	SU	Spring and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring and Fall	
Potassium	744-00-97	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring and Fall	
Sodium	744-02-35	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring and Fall	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	25.0	ug/L	Spring and Fall	
Sulfate	148-08-798	-	mg/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring and Fall	
tert-Butyl Benzene	980-66	-	ug/L	Spring and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Spring and Fall	
Tetrahydrofuran	109-99-9	25.0	ug/L	Spring and Fall	
Toluene	108-88-3	50.0	ug/L	Spring and Fall	
Trichloroethylene; (TCE)	790-16	1.25	ug/L	Spring and Fall	
Trichlorofluoromethane	756-94	500.0	ug/L	Spring and Fall	
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Lysimeter Riser A III, P1 , Lysimeter Riser A III, P2 , Lysimeter Riser A III, P3 , Lysimeter Riser A IV, P1/2 , Lysimeter Riser A IV, P3/4

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Spring and Fall	
Zinc	744-06-66	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-1 , S-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	13.0	ug/L	Spring and Fall	Surface Water Standard
1,1,1-Trichloroethane	715-56	329.0	ug/L	Spring and Fall	Surface Water Standard
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring and Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring and Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring and Fall	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring and Fall	
Acetone	676-41	-	ug/L	Spring and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring and Fall	
Appearance	1	-	N/A	Spring and Fall	
Arsenic	744-03-82	53.0	ug/L	Spring	Surface Water Standard
Benzene	714-32	114.0	ug/L	Spring and Fall	Surface Water Standard
Boron	744-04-28	250.0	ug/L	Spring	



## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-1 , S-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Bromobenzene	108-86-1	-	ug/L	Spring and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring and Fall	
Bromoform	752-52	-	ug/L	Spring and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring and Fall	
Cadmium	744-04-39	1.1	ug/L	Spring	Surface Water Standard
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	5.9	ug/L	Spring and Fall	Surface Water Standard
Chloride	168-87-006	230.0	mg/L	Spring	Surface Water Standard
Chlorobenzene; (monochlorobenzene)	108-90-7	20.0	ug/L	Spring and Fall	Surface Water Standard
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring and Fall	
Chloroethane	750-03	-	ug/L	Spring and Fall	
Chloroform	676-63	155.0	ug/L	Spring and Fall	Surface Water Standard
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring and Fall	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring and Fall	
Copper	744-05-08	9.8	ug/L	Spring	Surface Water Standard
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring and Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring and Fall	
Dichloromethane; (Methylene chloride)	750-92	1,940.0	ug/L	Spring and Fall	Surface Water Standard
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	12.5	ug/L	Spring and Fall	
Ethyl ether	602-97	50.0	ug/L	Spring and Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring and Fall	
Lead	743-99-21	3.2	ug/L	Spring	Surface Water Standard
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	75.0	ug/L	Spring	
Mercury	743-99-76	0.0069	ug/L	Spring	Surface Water Standard
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-1 , S-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring and Fall	
Naphthalene	912-03	81.0	ug/L	Spring and Fall	Surface Water Standard
n-Butyl Benzene	104-51-8	-	ug/L	Spring and Fall	
n-Propyl benzene	103-65-1	-	ug/L	Spring and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring and Fall	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring and Fall	
Styrene	100-42-5	-	ug/L	Spring and Fall	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	5.0	ug/L	Spring and Fall	Surface Water Standard
Tetrahydrofuran	109-99-9	-	ug/L	Spring and Fall	
Toluene	108-88-3	50.0	ug/L	Spring and Fall	
Trichloroethylene; (TCE)	790-16	120.0	ug/L	Spring and Fall	Surface Water Standard
Trichlorofluoromethane	756-94	-	ug/L	Spring and Fall	
Vinyl chloride; (chloroethene)	750-14	9.2	ug/L	Spring and Fall	Surface Water Standard
Xylenes (mixture of o,m,p)	133-02-07	166.0	ug/L	Spring and Fall	Surface Water Standard

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	13.0	ug/L	Spring	Surface Water Standard
1,1,1-Trichloroethane	715-56	329.0	ug/L	Spring	Surface Water Standard
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring	
1,2-Dichloropropane	788-75	-	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	-	ug/L	Spring	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring	
Appearance	1	-	N/A	Spring	
Arsenic	744-03-82	53.0	ug/L	Spring	Surface Water Standard
Benzene	714-32	114.0	ug/L	Spring	Surface Water Standard
Boron	744-04-28	250.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring	
Bromoform	752-52	-	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring	
Cadmium	744-04-39	1.1	ug/L	Spring	Surface Water Standard
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	5.9	ug/L	Spring	Surface Water Standard
Chloride	168-87-006	230.0	mg/L	Spring	Surface Water Standard
Chlorobenzene; (monochlorobenzene)	108-90-7	20.0	ug/L	Spring	Surface Water Standard
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	155.0	ug/L	Spring	Surface Water Standard
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Copper	744-05-08	9.8	ug/L	Spring	Surface Water Standard
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	1,940.0	ug/L	Spring	Surface Water Standard
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	12.5	ug/L	Spring	
Ethyl ether	602-97	50.0	ug/L	Spring	
Hexachlorobutadiene	876-83	-	ug/L	Spring	
Lead	743-99-21	3.2	ug/L	Spring	Surface Water Standard
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	75.0	ug/L	Spring	
Mercury	743-99-76	0.0069	ug/L	Spring	Surface Water Standard
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 S-2

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring	
Naphthalene	912-03	81.0	ug/L	Spring	Surface Water Standard
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Styrene	100-42-5	-	ug/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	5.0	ug/L	Spring	Surface Water Standard
Tetrahydrofuran	109-99-9	-	ug/L	Spring	
Toluene	108-88-3	50.0	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	120.0	ug/L	Spring	Surface Water Standard
Trichlorofluoromethane	756-94	-	ug/L	Spring	
Vinyl chloride; (chloroethene)	750-14	9.2	ug/L	Spring	Surface Water Standard
Xylenes (mixture of o,m,p)	133-02-07	166.0	ug/L	Spring	Surface Water Standard

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 W-10 , W-11 , W-16 , W-17 , W-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	13.0	ug/L	Spring	Surface Water Standard
1,1,1-Trichloroethane	715-56	329.0	ug/L	Spring	Surface Water Standard
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring	
1,1-Dichloroethane	753-43	-	ug/L	Spring	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring	
1,2-Dichloropropane	788-75	-	ug/L	Spring	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring	
Acetone	676-41	-	ug/L	Spring	
Alkalinity, Bicarbonate as CaCO3	381-23-26	-	meq/L	Spring	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring	
Appearance	1	-	N/A	Spring	
Arsenic	744-03-82	53.0	ug/L	Spring	Surface Water Standard
Benzene	714-32	114.0	ug/L	Spring	Surface Water Standard

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 W-10 , W-11 , W-16 , W-17 , W-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Boron	744-04-28	-	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring	
Bromoform	752-52	-	ug/L	Spring	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring	
Cadmium	744-04-39	1.1	ug/L	Spring	Surface Water Standard
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	5.9	ug/L	Spring	Surface Water Standard
Chloride	168-87-006	230.0	mg/L	Spring	Surface Water Standard
Chlorobenzene; (monochlorobenzene)	108-90-7	20.0	ug/L	Spring	Surface Water Standard
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring	
Chloroethane	750-03	-	ug/L	Spring	
Chloroform	676-63	155.0	ug/L	Spring	Surface Water Standard
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring	
Copper	744-05-08	9.8	ug/L	Spring	Surface Water Standard
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring	
Dichlorodifluoromethane	757-18	-	ug/L	Spring	
Dichlorofluoromethane	754-34	-	ug/L	Spring	
Dichloromethane; (Methylene chloride)	750-92	1,940.0	ug/L	Spring	Surface Water Standard
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring	
Ethyl benzene	100-41-4	-	ug/L	Spring	
Ethyl ether	602-97	-	ug/L	Spring	
Hexachlorobutadiene	876-83	-	ug/L	Spring	
Lead	743-99-21	3.2	ug/L	Spring	Surface Water Standard
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	-	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 W-10 , W-11 , W-16 , W-17 , W-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Mercury	743-99-76	0.0069	ug/L	Spring	Surface Water Standard
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring	
Naphthalene	912-03	81.0	ug/L	Spring	Surface Water Standard
n-Butyl Benzene	104-51-8	-	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring	
pH	C-0-06	-	SU	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	-	ug/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring	
tert-Butyl Benzene	980-66	-	ug/L	Spring	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	5.0	ug/L	Spring	Surface Water Standard
Tetrahydrofuran	109-99-9	-	ug/L	Spring	
Toluene	108-88-3	-	ug/L	Spring	
Trichloroethylene; (TCE)	790-16	120.0	ug/L	Spring	Surface Water Standard
Trichlorofluoromethane	756-94	-	ug/L	Spring	
Turbidity, Field	G-0-19	-	NTU	Spring	
Vinyl chloride; (chloroethene)	750-14	9.2	ug/L	Spring	Surface Water Standard
Xylenes (mixture of o,m,p)	133-02-07	166.0	ug/L	Spring	Surface Water Standard



## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

W-102A , W-104A , W-106A , W-201A , W-202A , W-2A , W-301A , W-302A , W-5 , W-6

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Spring and Fall	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Spring and Fall	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Spring and Fall	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Spring and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring and Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	10.0	ug/L	Spring and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring and Fall	
1,2,3-Trichloropropane	961-84	0.00075	ug/L	Spring and Fall	
1,2,4-Trichlorobenzene	120-82-1	1.0	ug/L	Spring and Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Spring and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	150.0	ug/L	Spring and Fall	
1,2-Dichloroethane	107-06-2	0.25	ug/L	Spring and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Spring and Fall	
1,2-Dichloropropane	788-75	1.25	ug/L	Spring and Fall	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Spring and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Spring and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring and Fall	
Acetone	676-41	1,000.0	ug/L	Spring and Fall	
Alkalinity, Bicarbonate as CaCO3	381-23-26	-	meq/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Spring and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring	
Arsenic	744-03-82	2.5	ug/L	Spring	
Barium	744-03-93	500.0	ug/L	Spring	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

W-102A , W-104A , W-106A , W-201A , W-202A , W-2A , W-301A , W-302A , W-5 , W-6

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Benzene	714-32	0.5	ug/L	Spring and Fall	
Boron	744-04-28	250.0	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Spring and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Spring and Fall	
Bromoform	752-52	10.0	ug/L	Spring and Fall	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Spring and Fall	
Cadmium	744-04-39	1.0	ug/L	Spring	
Calcium	744-07-02	-	ug/L	Spring	
Carbon tetrachloride	562-35	0.25	ug/L	Spring and Fall	
Chloride	168-87-006	-	mg/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Spring and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Spring and Fall	
Chloroethane	750-03	-	ug/L	Spring and Fall	
Chloroform	676-63	7.5	ug/L	Spring and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring and Fall	
Chromium	744-04-73	25.0	ug/L	Spring	If total Cr > 100 ug/L must speciate for Cr+6
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring and Fall	
Copper	744-05-08	-	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Spring and Fall	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Spring and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring and Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring and Fall	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Spring and Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring and Fall	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring and Fall	
Ethyl benzene	100-41-4	12.5	ug/L	Spring and Fall	
Ethyl ether	602-97	50.0	ug/L	Spring and Fall	
Hexachlorobutadiene	876-83	0.25	ug/L	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

W-102A , W-104A , W-106A , W-201A , W-202A , W-2A , W-301A , W-302A , W-5 , W-6

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Iron	743-98-96	-	ug/L	Spring	
Lead	743-99-21	3.75	ug/L	Spring	
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	25.0	ug/L	Spring	
Mercury	743-99-76	0.5	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Spring and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Spring and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	15.0	ug/L	Spring and Fall	
Naphthalene	912-03	17.5	ug/L	Spring and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring and Fall	
Nickel	744-00-20	25.0	ug/L	Spring	
Nitrate (as Nitrogen)	147-97-558	2,500.0	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Spring and Fall	
pH	C-0-06	-	SU	Spring and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring and Fall	
Potassium	744-00-97	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring and Fall	
Selenium	778-24-92	7.5	ug/L	Spring	
Sodium	744-02-35	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring and Fall	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	25.0	ug/L	Spring and Fall	
Sulfate	148-08-798	-	mg/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring and Fall	
tert-Butyl Benzene	980-66	-	ug/L	Spring and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Spring and Fall	
Tetrahydrofuran	109-99-9	25.0	ug/L	Spring and Fall	
Toluene	108-88-3	50.0	ug/L	Spring and Fall	
Trichloroethylene; (TCE)	790-16	0.1	ug/L	Spring and Fall	
Trichlorofluoromethane	756-94	500.0	ug/L	Spring and Fall	

## LIMITS TABLE

Comments:

Report Date: 09/03/2015  
 Facility: Clay County Sanitary Landfill  
 Permit: SW-34

Standard Landfill Monitoring Periods:  
 Spring: Mar-28 to May-14  
 Summer: Jul-01 to Jul-31  
 Fall: Oct-01 to Oct-31

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 W-102A , W-104A , W-106A , W-201A , W-202A , W-2A , W-301A , W-302A , W-5 , W-6

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Turbidity, Field	G-0-19	-	NTU	Spring and Fall	
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Spring and Fall	
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Spring and Fall	
Zinc	744-06-66	500.0	ug/L	Spring	

## Required Actions and Submittals Table

Report Date: 09/03/2015

Facility: Clay County Sanitary Landfill

Permit SW-34

Action: PER008

***DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT***

Subject Item I.D. Total Facility

**Required Actions/Submittals**

Frequency/Due Date	Action or Submittal	Requirement
TBD	Submit Permit Application	To allow for adequate MPCA review time and to avoid possible termination of the permit at the time the permit expires, an application for reissuance of the permit must be submitted to the Commissioner no later than 180 calendar days before the expiration date of the permit. Submit Permit Application: due 3,472 days after Permit Issuance
Annually	Submit Annual Facility Report	An annual facility report for the preceding calendar year must be submitted to the Commissioner by February 1 of each year. The report must include the information identified in Minn. R. 7035.2585 and include summary evaluation reports and specific annual reporting requirements for each waste activity.

Subject Item I.D. SA003

**Required Actions/Submittals**

Frequency/Due Date	Action or Submittal	Requirement
Annually	Submit Annual Water Monitoring Evaluation Report	An annual water and leachate monitoring evaluation report must be submitted to the MPCA by February 1 of each year. The report must include a summary and discussion of the monitoring results for the preceding calendar year.
Annually	Submit Autumn Water Monitoring Report	An autumn water monitoring report must be submitted by January 31 of each year. The water monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P.
Annually	Submit Spring Water Monitoring Report	A spring water monitoring report must be submitted by June 30 of each year. The water monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P.

# Waste Capacity Table

Report Date: 09/03/2015

Facility: Clay County Sanitary Landfill

Permit SW-34

Action: PER008

		<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	
WA ID	Waste Activity Type	Status	Permitted Area	Units	Permitted Capacity	Units	Design Capacity	Units	Comments	
LR001	Leachate Recirculation	Open	30.00	acres	0.00	cubic yards	0.00	cubic yards	Area III, Phase 3 and Area IV, Phases 1 through 4.	
SA003	Municipal Solid Waste Disposal Area	Open	78.50	acres	4,000,000.00	cubic yards	5,438,963.00	cubic yards	Includes Areas II, III and IV. Former Area I is now part of Area IV. Includes approximately 3,000,000 cy waste in place and 1,000,000 cy of airspace capacity.	
ST001	Solid Waste Storage Area	Open	1,600.00	square feet	500.00	cubic yards/year	500.00	cubic yards/year	411 cy/yr demo; 150 appliances; 5 tpy recyclables	
					5.00	tons/year	5.00	tons/year		