

**Solid Waste Facility Permit****SW-89-0004**

**Facility name:** Brown County Sanitary Landfill  
21933 County Road 11  
Sleepy Eye, MN 56085  
Brown County

**Issuance date:** TBD

**Expiration date:** TBD

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 facility under the conditions set forth in this permit.

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.

This permit is effective on the issuance date identified above, and supersedes the previous permit that was issued for this facility. This permit expires at midnight on the expiration date identified above.

Signature:



*This document has been electronically signed.*

Sherri M. Nachtigal, P.E.

Supervisor

Solid Waste Permitting Unit 2

Resource Management & Assistance Division

*for the Minnesota Pollution Control Agency*

## Table of Contents

|                                               | Page |
|-----------------------------------------------|------|
| 1. List of Permittees .....                   | 3    |
| 2. Permitted facility description.....        | 4    |
| 3. Permit requirements.....                   | 5    |
| 4. Waste activities .....                     | 22   |
| 5. Submittal/Action requirements .....        | 23   |
| 6. Monitoring stations.....                   | 24   |
| 7. Monitoring groups .....                    | 25   |
| 8. Sampling and monitoring requirements ..... | 26   |
| 9. Certificate of Need (CON) .....            | 48   |

## 1. List of Permittees

The following Permittee(s) are authorized to construct and operate the Brown County Sanitary Landfill, SW-89-0004, under the conditions set forth in this permit.

**Permittee activity owner:**

Brown County  
14 S State St  
New Ulm, MN 560733154

**Permittee landowner:**

Brown County  
14 S State St  
New Ulm, MN 560733154

**Permittee operator:**

The Mathiowetz Construction Co  
30676 County Road 24  
Sleepy Eye, MN 560854359

## 2. Permitted facility description

The Brown County Sanitary Landfill (Facility) is located at:  
21933 County Road 11  
Sleepy Eye, MN 56085  
Brown County

The Facility authorized by this permit is a mixed municipal solid waste (MSW) land disposal facility located on a 181.84 acre parcel approximately six miles southwest of the City of New Ulm, Minnesota, in Section 6, Township 109 North, Range 31 West, Sigel Township, Brown County, Minnesota.

The Facility has two distinct areas: a closed, unlined (MSW) land disposal area, and an open, lined MSW disposal area. The design Facility capacity is 1,132,300 cubic yards (unlined MSW area) plus 2,602,500 cubic yards (lined MSW area) equals 3,734,800 cubic yards.

The MPCA originally issued Permit SW-89 consisting of 80 acres to Mathiowetz Enterprises, Inc., on September 1, 1972. On March 23, 1987, the MPCA modified Permit SW-89 and approved the change of ownership to Brown County. On August 8, 1990, the Permittee's consultant submitted revised calculations for the original design airspace, which was 1,814,000 cubic yards. The Permittee submitted design plans and specifications for the construction and operation of a lined horizontal development and expansion of the facility with a design air space of 2,602,500 cubic yards. On May 20, 1994, the MPCA approved the design for liner construction at the Facility. On September 20, 1994, the Facility permit was reissued. The 1994 permit authorized placement of up to 681,700 cubic yards of solid waste, daily, intermediate, and final cover materials in the lined fill area east of the previously used unlined fill area. Closure construction activities occurred in the unlined MSW disposal area in the summer of 1995. In 2016, the County obtained an additional 72 acres north of the existing property, for a new total area of 152 acres. Approximately 1,132,300 cubic yards of material have been placed in the unlined area. Approximately 1,653,442 cubic yards of the 2,602,500 cubic yards remain to be placed in the lined MSW disposal area, based on the 2017 annual report. With the issuance of this permit, the remaining capacity in the lined MSW area will be authorized. The permit issuance will authorize a composite liner system for future cell construction projects (two feet of clay plus 60 mil. HDPE) instead of installing the previously approved liner system of four feet of clay.

The permit application approved by this permit is signed and dated May 7, 2017. Brown County previously submitted two applications for minor permit modification. On July 10, 2020, the first minor permit modification application was submitted to extend sprayfield usage to December 2023. On July 29, 2020, the second minor permit modification application was submitted to allow for the storage of agricultural plastic bags on site prior to transfer for recycling. MPCA did not act on these minor permit modification applications. On April 24, 2024, a major permit modification application was submitted for the incremental construction and operation of leachate recirculation. This major permit modification will also authorize leachate recirculation on the working face of landfill cells with a composite liner system; at the Facility this includes Cells 20-25. This major permit modification will also authorize storage of plastic agricultural bags prior to transfer for recycling.

### Groundwater Monitoring:

The Monitoring Groups for this permit have been updated. One monitoring group will consist of all groundwater monitoring wells. These wells will be monitored following the standard MSW analytical sampling list. VOCs, field parameters, and select inorganics/metals (arsenic, boron, manganese, and nickel) will be sampled twice a year (Spring and Fall) while the remaining inorganics/metals will be sampled once a year in the Fall. The second groundwater monitoring group will consist of all groundwater wells monitoring the land application area and select wells monitoring the unlined MSW landfill. These wells will be sampling select PFAS analytes twice a year (Spring and Fall). 1,4-Dioxane has been added to the monitoring groups.

### 3. Permit requirements

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SW-89</b> | <b>Brown County Sanitary Landfill</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.1.1        | <b>General.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.1.2        | "ACM" means Asbestos Containing Material. [40 CFR 61.141]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.3        | "Airspace" means the volume for filling with waste, considering all solid waste, daily, intermediate, intermittent and final cover materials, and design restrictions. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.1.4        | "Commissioner" means the Commissioner of the Minnesota Pollution Control Agency (MPCA), or any individual who is authorized to review and approve submittals on behalf of the Commissioner. [Minn. R. 7035.0300, subp. 16]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.5        | "Construction debris" means waste building materials, packaging, and rubble resulting from construction, remodeling, repair, and demolition of buildings and roads. [Minn. Stat. 115A.03, subd. 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.6        | "Demolition debris" means solid waste resulting from the demolition of buildings, roads, and other structures including concrete, brick, bituminous concrete, untreated wood, masonry, glass, trees, rock, and plastic building parts. Demolition debris does not include asbestos wastes. [Minn. R. 7035.0300, subp. 30]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.7        | "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, stormwater 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. [Minn. R. 7035.0300, subp. 32] |
| 3.1.8        | "Facility" has the meaning given in Minn. R. 7035.0300, subp. 37. [Minn. R. 7035.0300, subp. 37]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.1.9        | "Permitted Capacity" means the total amount or acceptance rate allowed for storage, composting, processing, transfer or disposal at the facility as found in the Waste Capacity Table of this Permit. For land disposal areas, "permitted capacity" as stated in the Waste Capacity Table includes the volume already filled by previous disposal activities, and airspace volume authorized to be used during the ten-year term of the current permit, including cover systems. For storage of recyclables or beneficial use, "permitted capacity" as stated in the Waste Capacity Table details the maximum volume allowed to be stored on site at one given time. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                             |
| 3.1.10       | "Permittee" means the landowner, facility owner(s), and facility operator(s). [Minn. R. 7001.3060]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.11       | "Solid waste storage" means the holding of solid waste for more than 48 hours in quantities equal to or greater than ten cubic yards. [Minn. R. 7035.0300, subp. 104]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.1.12       | "Waste Activity" means the storage, processing, transfer, utilization, treatment, or disposal of solid waste and waste by-products. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.13       | "Waste Activity Area" means the land, structures, monitoring devices, and other appurtenances and improvements on the land associated with a waste activity. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.14       | The facility waste activities authorized by this permit are limited to those activities described in the Waste Capacity Table of this permit. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.1.15       | The Permittee shall keep the status of the permit current and up-to-date. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.16       | 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, in accordance with all state and federal statutes, rules and regulations, and in compliance with the conditions of the permit. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.1.17       | The facility encompasses approximately 181.84 acres and is located in Sec. 6, T109 N, R 31 W, Sigel Township, Brown County.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | The physical address is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <p>21933 County Rd. Sleepy Eye, MN 56085</p> <p>The mailing address is:<br/>Brown County, Solid Waste Administrator,<br/>14 S. State St.,<br/>New Ulm, MN 56073-3154. [Minn. R. 7001.0150, subp. 2]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.18 | <p>In accordance with Minn. R. 4410.4300, subp. 17, the February 6, 2008, application and need for additional capacity triggered a mandatory requirement for the preparation and completion of an Environmental Assessment Worksheet (EAW). Environmental review for this project was completed on August 5, 2008, with the issuance of a negative declaration on the need for an Environmental Impact Statement (EIS). This permit authorizes a total mixed municipal solid waste (MSW) permitted capacity of 3,734,800 cubic yards (SA 001-1,132,300 cubic yards, and SA 002-2,602,500 cubic yards). The technical review for this permit was based on an estimated design capacity for MSW of 3,734,800 cubic yards. The February 2008 application was updated with the submittal of the May 2017 application. There were no additional triggers for an EAW in the May 2017 application.</p> <p>Subsequently, on March 2, 2021, Environmental Review determined that a new EAW is not required for the proposed Leachate Recirculation System. [Minn. R. 4410.4300, subp. 17]</p> |
| 3.1.19 | No variances are being requested by the permittee at this time. [Minn. R. 7035.0600]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.1.20 | The Permittee shall notify the MPCA before transferring ownership or operation of a solid waste management facility during its operating life or during postclosure care period in accordance with Minn. R. 7035.2535, subp. 2. [Minn. R. 7035.2535, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.21 | <b>Permit Documents.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.22 | <p>The approved plans and engineering documents are incorporated into this permit. In addition, once approved by the Commissioner, the Permittee shall comply with all submittals that are submitted in accordance with the terms of 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.</p> <p>[Minn. R. 7001.0150, subp. 3(E), Minn. R. 7035.2610]</p>                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.23 | The permit application approved by this permit is signed and dated May 7, 2017. Two minor permit modification applications received on July 10, 2020, and July 29, 2020. MPCA did not act on these minor permit modification applications. On April 24, 2024, a major permit modification application was submitted for the incremental construction and operation of leachate recirculation. This major modification will authorize leachate recirculation and the storage of agricultural plastic at the Facility. [Minn. R. 7001.0010]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.24 | <p>The engineering documents approved by this permit include, but are not limited to:</p> <ol style="list-style-type: none"> <li>1. Engineering Report, dated May 2017</li> <li>2. Operations and Maintenance Manual, dated May 2017</li> <li>3. Contingency Action Plan, dated May 2017</li> <li>4. Closure/Postclosure Plan, dated May 2017</li> <li>5. Cost Estimates, dated May 2017</li> <li>6. Financial Assurance Plan, dated May 2017</li> <li>7. Industrial Solid Waste Management Plan, dated May 2017</li> <li>8. Technical Specifications, dated May 2017</li> <li>9. Construction Quality Assurance/Quality Control Plan, dated May 2017</li> <li>10. Engineering Plans/Drawings, dated May 2017</li> <li>11. Minor Permit Modification Application, dated July 10, 2020</li> <li>12. Minor Permit Modification Application, dated July 29, 2020</li> </ol>                                                                                                                                                                                                             |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | 13. Repermitting Application and Major Modification - Addendum 1, dated April 23, 2024.<br>[Minn. R. 7001.0150, subp. 3(H)]                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.25 | 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. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                  |
| 3.1.26 | <b>Design And Construction Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.27 | The Permittee may not locate, establish, or construct a solid waste management facility in areas designated in Minn. R. 7035.2555. [Minn. R. 7035.2555]                                                                                                                                                                                                                                                                                                                                                                         |
| 3.1.28 | The Permittee shall construct 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. The Permittee shall design any proposed future expansions of the facility in accordance with this rule. [Minn. R. 7035.2565]                                                                                                                      |
| 3.1.29 | The Permittee shall construct the waste activity area where solid waste is stored in accordance with Minn. R. 7035.2855 except as provided in, subp. 1 and Minn. R. 7035.2525, subp. 2. [Minn. R. 7035.2855]                                                                                                                                                                                                                                                                                                                    |
| 3.1.30 | The Permittee shall construct the stormwater management system for the facility with Best Management Practices to manage stormwater discharge 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. The issuance of this permit does not release the Permittee from the obligation to obtain an NPDES/SDS permit. [Minn. R. 7001.1090]                         |
| 3.1.31 | The Permittee shall submit a construction plan to the Commissioner for approval prior to construction if the construction plan proposes any major revisions to the approved design.<br>[Minn. R. 7001.0150, subp. 3(H), Minn. R. 7035.2610]                                                                                                                                                                                                                                                                                     |
| 3.1.32 | The Permittee shall notify appropriate MPCA staff at least ten (10) working days in advance of the construction of the facility or any component thereof unless the Commissioner orders otherwise.<br>[Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                             |
| 3.1.33 | The Permittee shall 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 shall not be placed into operation until the construction certification has been approved by the Commissioner.<br>[Minn. R. 7035.2610]                                                                                                                                                                                                      |
| 3.1.34 | 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.<br>[Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                              |
| 3.1.35 | <b>Operation And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.36 | 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. [Minn. R. 7035.2545, Minn. R. 7048.0100-1300]                                                                                                                                                                                                                           |
| 3.1.37 | 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. [Minn. R. 7035.2535, subp. 3]                                                                                                                                           |
| 3.1.38 | The Permittee shall establish and maintain a personnel training program consisting of classroom instruction and on-the-job training. The program shall address the requirements identified in Minn. R. 7035.2545, subp. 3, and shall 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.<br>[Minn. R. 7035.2545, subp. 3] |
| 3.1.39 | The Permittee shall prepare and maintain an operations and maintenance manual for the facility. The manual shall include operations and maintenance criteria that are specific to each solid waste management                                                                                                                                                                                                                                                                                                                   |

|        |                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | area within the facility. [Minn. R. 7001.3300, subp. P]                                                                                                                                                                                                                                                                                                                                               |
| 3.1.40 | The Permittee shall construct and maintain all-weather approach and access roads to all waste activity areas within the facility. [Minn. R. 7001.0150, subp. 3(E)]                                                                                                                                                                                                                                    |
| 3.1.41 | The Permittee shall not accept for disposal, any source-separated recyclable materials unless the commissioner has determined that no other person is willing to accept the recyclable material. [Minn. Stat. 115A.95]                                                                                                                                                                                |
| 3.1.42 | <b>Storage Of Solid Waste.</b>                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.43 | 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. [Minn. R. 7035.0700, Minn. R. 7035.2855]                                                                                                                                                                                               |
| 3.1.44 | 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. [Minn. R. 7001.0150, subp. 3(O)]                                                                                                                |
| 3.1.45 | The Permittee shall manage the facility to be in compliance with Minn. R. 7011.0150 to prevent particulate matter from becoming airborne. [Minn. R. 7011.0150]                                                                                                                                                                                                                                        |
| 3.1.46 | The Permittee shall manage all free liquids that have come in contact with solid waste so that the liquids are not discharged as stormwater. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                            |
| 3.1.47 | The Permittee shall provide effective measures to control flies, rodents and other insects or vermin as necessary. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                      |
| 3.1.48 | The Permittee shall provide for the proper collection and transportation of solid waste in accordance with Minn. R. 7035.0800. [Minn. R. 7035.0800]                                                                                                                                                                                                                                                   |
| 3.1.49 | The Permittee shall not accept the wastes identified in Minn. R. 7035.2535, subp. 1 for treatment, storage, processing, or disposal. [Minn. R. 7035.2535, subp. 1]                                                                                                                                                                                                                                    |
| 3.1.50 | 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 shall 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. [Minn. R. 7035.2535, subp. 5]                                 |
| 3.1.51 | The Permittee shall manage household hazardous waste as specified in the approved plan in accordance with Minn. R. 7035.2535, subp. 6. [Minn. R. 7035.2535, subp. 6]                                                                                                                                                                                                                                  |
| 3.1.52 | 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. [Minn. R. 7001.1090] |
| 3.1.53 | 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. [Minn. R. 7035.2565]                                                                                         |
| 3.1.54 | 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. [Minn. R. 7035.2595, subp. 2&4]                                          |
| 3.1.55 | The Permittee shall keep a written operating record at the facility in accordance with Minn. R. 7035.2575. [Minn. R. 7035.2575, subp. 2]                                                                                                                                                                                                                                                              |
| 3.1.56 | 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 shall record inspections in an inspection log or summary and shall keep these records for at least five years. [Minn. R. 7035.2535, subp. 4]                                                                                 |
| 3.1.57 | The Permittee shall maintain a copy of the approved emergency procedures manual at the facility for facility personnel to use in time of emergency. [Minn. R. 7035.2595, subp. 5]                                                                                                                                                                                                                     |
| 3.1.58 | The Permittee shall maintain a copy of the approved contingency action plan at the facility. [Minn. R. 7035.2615]                                                                                                                                                                                                                                                                                     |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1.59 | 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. 7035.2625. [Minn. R. 7035.2625, subp. 3]                                                                                                                                                                                                                                                                                                                                                                |
| 3.1.60 | 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 shall be kept by the contact person identified in Minn. R. 7035.2645, subp. 2, item C. [Minn. R. 7035.2645, subp. 2]                                                                                                                                                                                                                                                                                  |
| 3.1.61 | <b>Monitoring Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.62 | The Permittee shall design, construct, operate, and maintain the disposal area to achieve compliance with the analytical limits set forth in the Sampling and Monitoring Requirements of this permit. These limits are based upon the Minnesota Department of Health, Health Risk Limits (HRL), Health-Based Values (HBV), Risk Assessment Advice (RAA), and US EPA Maximum Contaminant Level (MCL) 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. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 4(F & H)] |
| 3.1.63 | The Permittee shall establish compliance boundaries as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 4, items A through E. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 4(A-E)]                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.64 | The Permittee shall maintain the adequacy of the water monitoring system to reliably detect pollution and to comply with this permit. [Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.1.65 | The Permittee shall 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. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 14(E)]                                                                                                                                                                                                                                                                                                                                     |
| 3.1.66 | The Permittee shall develop and keep current a written monitoring protocol for the disposal area according to Minn. R. 7035.2815, subp. 14, item G and shall ensure the protocol is followed during sampling and sample analysis. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 14(G)]                                                                                                                                                                                                                                                                                                       |
| 3.1.67 | The Permittee shall conduct groundwater quality sampling and analysis as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14, and shall include the monitoring stations identified in this Permit. The Permittee shall conduct the sampling according to the schedule shown in the Sampling and Monitoring Requirements of this Permit. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                                                                 |
| 3.1.68 | The Permittee shall conduct groundwater quality sampling and analysis for per- and polyfluoroalkyl substances (PFAS) as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14, and shall include the monitoring stations identified in this Permit. The Permittee shall conduct the sampling according to the schedule shown in the Sampling and Monitoring Requirements of this Permit. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                  |
| 3.1.69 | When technically feasible the analytic reporting limit must be less than or equal to the intervention limit for each parameter specified in this permit. A discussion must be provided in the annual report for parameters where the reporting limit is greater than the intervention limit. The MPCA defines what is technically feasible for various parameters in MPCA document: Laboratory Achievable Reporting Limits (w-sw3-58.xls). [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 14]                                                                                                 |
| 3.1.70 | The sampling window for the Spring Quarter, denoted as "Apr" on the Sampling and Monitoring Requirement Table, is between March 14 and May 14 of each calendar year. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                       |
| 3.1.71 | The sampling window for the Summer Quarter, denoted as "Jul" on the Sampling and Monitoring Requirement Table, is between June 21 and August 7 of each calendar year. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.72 | The sampling window for the Fall Quarter, denoted as "Oct" on the Sampling and Monitoring Requirement Table, is between October 1 and November 21 of each calendar year. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                   |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1.73 | The Permittee shall take the actions listed in Minn. R. 7035.2815, subp. 4, item G. if an intervention limit established in this permit is exceeded. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 4(G)]                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.74 | The Permittee shall conduct leachate quality sampling and analysis as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14 and shall include the monitoring stations identified in this permit. The Permittee shall conduct the sampling according to the schedule shown in the Sampling and Monitoring Requirements of this Permit.<br>[Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                          |
| 3.1.75 | The Permittee shall implement a gas monitoring program and conduct quarterly methane monitoring, at a minimum, on the facility property boundary as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 11. In addition, continuous methane monitoring must be done in and around facility structures. Quarterly monitoring is denoted as Apr, Jul, Oct, Dec" and continuous monitoring denotes as "Jan-Dec" on the Sampling and Monitoring Requirement Table of this permit.<br>[40 CFR 258.23, Minn. R. 7035.2815, subp. 11]                                                                |
| 3.1.76 | <b>Reporting Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.77 | The Permittee shall submit an annual facility report for the preceding calendar year in accordance with Minn. R. 7035.2585 in a format prescribed by the MPCA. The annual facility report shall include waste types, volumes, management methods, and final destinations. When required of a waste activity, the report shall include summary evaluation reports and specific annual reporting requirements and monitoring results. The Permittee shall submit the report to the Commissioner according to the schedule in the Submittal/Action requirements section of this Permit. [Minn. R. 7035.2585]                                      |
| 3.1.78 | The Permittee shall submit an electronic copy of all monitoring data including groundwater, leachate, landfill gas, and field data for each monitoring event. Electronic data shall be submitted in the format specified by the MPCA. The schedule for submitting electronic monitoring data shall follow the schedule outlined in the Submittal/Action Requirements section of this permit. If continuous monitoring occurs for leachate head and/or interior methane monitoring, that data does not need to be submitted electronically. However, a summary of the data must be included in the annual facility report. [Minn. R. 7001.0150] |
| 3.1.79 | The Permittee shall submit a complete copy of all monitoring results via email in PDF format to solidwastereports.pca@state.mn.us. The facility name and permit number must be in the subject line of the email. The monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including but is not limited to the analytical report, chain of custody forms, field notes, data analysis, and recommendation for monitoring adjustments.<br>[Minn. R. 7001.0150]                                                                                          |
| 3.1.80 | The Permittee shall collect location and elevation data for all monitoring points. Location data shall be submitted in an approved coordinates system. Elevation data for monitoring wells shall include the elevation of the riser pipe and ground surface. The depth of wells from the riser pipe shall also be identified. If existing data is being reported the surveying method and datum used to collect this information shall be identified. [Minn. R. 7001.0150]                                                                                                                                                                     |
| 3.1.81 | The Permittee shall submit an annual water and leachate monitoring summary and 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 this Permit. [Minn. R. 7001.0150, subp. 2, Minn. R. 7035.2815, subp. 14(Q)]                                                                                                                                                                                                                                                             |
| 3.1.82 | 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 Part 258, subp. C, Sec. 258.23. The Permittee shall submit the report to the Commissioner, as part of the annual facility report, according to the schedule in this permit. [40 CFR 258.23, Minn. R. 7035.2815, subp. 11]                                                                                                                                                                                                                         |
| 3.1.83 | <b>Contingency Action Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.84 | The Permittee shall address all facility waste activities as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2615. [Minn. R. 7035.2615]                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.1.85 | If a fire occurs in the waste deposit area, the Permittee shall immediately implement its contingency action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | plan to extinguish the fire. [Minn. R. 7001.0150, subp. 3(E)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.1.86  | 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 shall identify the action that will be taken to extinguish the fire, including sources for materials and equipment and a timeline for implementation, and shall be signed by a registered professional engineer. The Permittee shall implement the revised plan upon approval by the MPCA.<br>[Minn. R. 7001.0150, subp. 3(E)] |
| 3.1.87  | The Permittee shall implement the actions necessary to comply with the contingency action requirements in accordance with Minn. R. 7035.2615. [Minn. R. 7035.2615, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.1.88  | The Permittee shall notify the Minnesota Duty Officer immediately of the discharge, accidental or otherwise, of any substance or material under its control which, if not recovered, may cause pollution of waters of the state. The Permittee shall recover as rapidly and as thoroughly as possible such substance or material and take immediate action to minimize or abate pollution of waters of the state. The MN Duty Office can be reached at 800-422-0798. [Minn. Stat. 115.061]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.1.89  | The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any release to air, land, or water of pollutants that threaten human health or the environment in accordance with Minn. R. 7035.2595. [Minn. R. 7035.2595, subp. 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.90  | The Permittee shall take all reasonable containment measures during an emergency and submit a written report to the Commissioner in accordance with Minn. R. 7035.2605. [Minn. R. 7035.2605, subp. 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.1.91  | <b>Closure Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.92  | The Permittee shall close each waste activity, or the entire facility as appropriate, as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2625. [Minn. R. 7035.2625]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.93  | The Permittee shall perform closure for each waste activity as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2635. [Minn. R. 7035.2635]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.1.94  | The Permittee shall 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.<br>[Minn. R. 7001.0150, subp. 3(E)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.1.95  | <b>Postclosure Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.1.96  | The post-closure care period shall be a minimum of twenty years starting on the date the Commissioner approves the facility's final closure certification report. [Minn. Stat. 116.07, subd. 4h]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.1.97  | The Permittee shall comply with postclosure requirements as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2645. [Minn. R. 7035.2645]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.98  | The Permittee shall perform postclosure care for each waste activity as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2655, subp. 1. [Minn. R. 7035.2655, subp. 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.1.99  | The Permittee shall comply with postclosure use of property requirements in accordance with Minn. R. 7035.2655, subp. 2. [Minn. R. 7035.2655, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.100 | Prior to the end of the postclosure care period the Permittee must submit to the MPCA for review and approval a Post Closure Care Summary Report signed by a professional engineer licensed with the State of Minnesota. [Minn. R. 7035.2645]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.1.101 | <b>Financial Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.1.102 | The Permittee shall keep the current cost estimates for contingency action, closure and postclosure care for each waste activity at the facility during the operating life in accordance with Minn. R. 7035.2685, subp. 2. [Minn. R. 7035.2685]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.103 | The Permittee shall establish and maintain financial assurance in accordance with Minn. R. 7035.2665 to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | 7035.2805. [Minn. R. 7035.2665-2805]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.1.104 | <b>General Conditions.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.1.105 | 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. [Minn. R. 7001.0150, subp. 3(A)]                                                                                                                                                 |
| 3.1.106 | 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. [Minn. R. 7001.0150, subp. 3(B)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.1.107 | The permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.108 | 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. [Minn. R. 7001.0150, subp. 3(D)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.109 | 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. [Minn. R. 7001.0150, subp. 3(E)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.110 | 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. [Minn. R. 7001.0150, subp. 3(F)] |
| 3.1.111 | 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. [Minn. R. 7001.0150, subp. 3(G)]                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.1.112 | 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. [Minn. R. 7001.0150, subp. 3(H)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.113 | 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. [Minn. R. 7001.0150, subp. 3(I)]                                                                                     |
| 3.1.114 | 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. [Minn. R. 7001.0150, subp. 3(J)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.1.115 | 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.<br>[Minn. R. 7001.0150, subp. 3(K)]                                                                                                                                                                                                                                                                                           |
| 3.1.116 | The Permittee shall report noncompliance with the permit, not reported in the above requirement, by submitting the information listed above within 30 days of the discovery of the noncompliance.<br>[Minn. R. 7001.0150, subp. 3(L)]                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.117 | 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.<br>[Minn. R. 7001.0150, subp. 3(M)]                                                                                                                                                                                                                                                                                                |
| 3.1.118 | 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. [Minn. R. 7001.0150, subp. 3 (N)]                                                                                                                                                                                                                                                                                                                                   |
| 3.1.119 | 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. [Minn. R. 7001.0150, subp. 3(O)] |
| 3.1.120 | 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. [Minn. R. 7001.0170-0180]                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1.121 | 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. [Minn. R. 7035.3200]                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.1.122 | The Permittee may request an extension of the dates set forth in this permit including the submittal and monitoring dates. The request shall include justification for requesting the extension of the date. Based on the justification, the Commissioner may grant an extension. [Minn. R. 7001.0190, subp. 3(B)]                                                                                                                                                                                                                                                                                                               |
| 3.1.123 | This permit is valid until the expiration date unless revoked or modified by the MPCA pursuant to Minn. R. 7001.0170 to 7001.0180. 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 shall be submitted no later than 180 calendar days before the expiration date of the permit.<br>[Minn. R. 7001.0150, subp. 1, Minn. R. 7001.3500, subp. 1]                                                                                                                                                                 |
| 3.1.124 | The Permittee shall maintain records of all groundwater monitoring data and groundwater surface elevations for the active life of the facility and each waste activity and, for disposal activities, for the postclosure care period. The Permittee shall also maintain an operating record in accordance with Minn. R. 7035.2575 until closure of each waste activity at the facility. [Minn. R. 7001.3500, subp. 3(A)]                                                                                                                                                                                                         |
| 3.1.125 | 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. [Minn. R. 7001.3500, subp. 3(B)]                                                                                                                   |
| 3.1.126 | 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.<br>[Minn. R. 7001.3500, subp. 3(B (2))]                                                                                                                                                                            |
| 3.1.127 | 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. [Minn. R. 7001.3500, subp. 3 (B (3))]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.1.128       | <b>Specific Conditions.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.1.129       | Restrictions on Disposal:<br>The Permittee shall comply with Minn. Stat. 473.848, which prohibits disposal of unprocessed Metropolitan area MSW under certain circumstances when there is processing capacity at MSW processing facilities in the landfill service area. [Minn. Stat. 473.848]                                                                                                                                                                                                                                                                                                                                                                         |
| 3.1.130       | The Permittee shall prohibit waste from the Metropolitan area from being accepted at the facility. The following actions shall be completed to comply with this requirement: <ol style="list-style-type: none"> <li>1. Within 60 days of permit issuance, a sign shall be posted at the facility entrance gate informing customers that Metro Area MSW is not acceptable for disposal.</li> <li>2. The landfill scale operator shall ask each hauler the origin of the waste and reject MSW loads from the Metro Area.</li> <li>3. The facility Annual Report shall have a breakdown of waste by county of origin to show compliance. [Minn. Stat. 473.848]</li> </ol> |
| 3.1.131       | Land application of leachate will not be allowed after July 1, 2029, unless an MPCA approved PFAS treatment is installed at the Facility. [Minn. R. 7035.2815, subp. 9(K)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.1.132       | The spray-on cover materials approved for use as alternate daily cover must be applied in accordance with the MPCA Guidance Document for Alternate Daily Cover: Spray-On Cover Materials (w-sw5-11 [May 2009] or future revisions) and the manufacturer's recommendations.<br>[Minn. R. 7001.0150, Subp. 2, Minn. R. 7035.2815, Subp. 6(A)]                                                                                                                                                                                                                                                                                                                            |
| <b>SA 001</b> | <b>Unlined MSW Disposal Area</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.2.1         | This fill area is closed and has received final cover. No additional waste acceptance or disposal is permitted in this area. The area operated from 1972 to 1995. It consisted of 13 unlined trenches for MSW disposal. [Minn. R. 7035]                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.2.2         | <b>Operating And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.2.3         | The Permittee shall maintain the fill area in accordance with the approved plans.<br>[Minn. R. 7001.3055, Minn. R. 7035.2645, subp. 1 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.2.4         | The Permittee shall maintain the integrity of the final cover to prevent erosion of the surface and side slopes due to surface water erosion, reduce wind erosion, minimize particulate matter, retain slope stability, minimize vector intrusion and maintain vegetative growth.<br>[Minn. R. 7001.3055, Minn. R. 7035.2655, subp. 1-2]                                                                                                                                                                                                                                                                                                                               |
| <b>SA 002</b> | <b>Lined MSW Disposal Area</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.3.1         | The disposal area SA 002 is an open and lined MSW area. Operations started in this area in 1995. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.3.2         | <b>Design And Construction Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.3.3         | No new mixed municipal solid waste capacity may be permitted without a Certificate of Need (CON) issued by the Commissioner. The CON issued to this facility on September 4, 2020, was for 492,835 cubic yards. The Permittee shall track the amount of CON used and remaining CON on an annual basis as part of the facility's annual report. [Minn. R. 9215.890]                                                                                                                                                                                                                                                                                                     |
| 3.3.4         | The Permittee shall locate any proposed future expansions of the disposal area in accordance with Minn. R. 7035.2555 and Minn. R. 7035.2815, subp. 2. [Minn. R. 7035.2555, Minn. R. 7035.2815, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.3.5         | The Permittee shall construct or install the phases, cells, liners, leachate management system, gas management system and water monitoring system of the disposal area in accordance with the approved plans and specifications. [Minn. R. 7001.0150, subp. 3]                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.3.6         | The Permittee shall evaluate soils intended for use as cover or liner material in accordance with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Minn. R. 7035.2815, subp. 8. [Minn. R. 7035.2815, subp. 8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.3.7  | The Permittee shall design any proposed future expansions or modifications of the disposal area in accordance with the design requirements outlined in Minn. R. 7035.2815, subp. 5. Also, at a minimum, all major design features shall incorporate the construction requirements of Minn. R. 7035.2815, subp. 12. into the project specifications. [Minn. R. 7035.2815, subp. 12]                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.3.8  | The Permittee shall design any proposed future expansions or modifications of the disposal area liner in accordance with the design requirements outlined in Minn. R. 7035.2815, subp. 7. [Minn. R. 7035.2815, subp. 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.3.9  | The Permittee shall design any proposed future expansions or modifications of the disposal area cover system in accordance with Minn. R. 7035.2815, subp. 6, items D and E. [Minn. R. 7035.2815, subp. 6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.3.10 | The Permittee shall design any proposed future expansions or modifications of the disposal area to include a leachate detection, collection, and on-site or off-site treatment system in accordance with Minn. R. 7035.2815, subp. 9. [Minn. R. 7035.2815, subp. 9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.3.11 | The Permittee shall design any future expansions or modifications of the disposal area to include a water monitoring system in accordance with Minn. R. 7035.2815, subp. 10. [Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.3.12 | The Permittee shall design any proposed future expansions or modifications of the disposal area to include a gas monitoring, collection and treatment system in accordance with Minn. R. 7035.2815, subp. 11. [Minn. R. 7035.2815, subp. 11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.3.13 | <b>Operating And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.3.14 | The Permittee shall 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 shall install thermocouples in the newly lined area, and shall 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 shall 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. [Minn. R. 7035.2815, subp. 13(U)] |
| 3.3.15 | The Permittee shall 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. [Minn. R. 7035.2855, subp. 3(C & D)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.3.16 | The Permittee shall develop the site in phases according to the approved phase development plans and specifications. Each phase shall contain individual cells that will provide for filling in a manner to achieve final waste elevations as rapidly as possible. [Minn. R. 7035.2815, subp. 5(B)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.3.17 | The Permittee shall outline each fill phase with grade stakes or another marking method before the deposition of any waste. [Minn. R. 7035.2815, subp. 13(F)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.3.18 | After the insulation layer over the newly constructed liner is complete, the Permittee shall 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. [Minn. R. 7001.0150, subp. 2 &3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.3.19 | The Permittee shall spread and compact solid waste as densely as practicable in layers which are two feet or less in depth before compaction. [Minn. R. 7035.2815, subp. 13(A)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.3.20 | After the insulation layer over the newly constructed liner is complete, the Permittee shall 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. [Minn. R. 7035.2815, subp. 13(B)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.3.21 | The Permittee shall maintain suitable cover material at the site. If suitable cover material is not available on-site, cover material shall 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. [Minn. R. 7001.0150, subp. 2 &3, Minn. R. 7035.2825, subp. 9(C)]                                                                                                                                                                                                                                                                                                                                                                                                                               |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.3.22        | The Permittee shall place an intermittent cover upon all exposed solid waste daily. The cover depth shall be sufficient to cover all waste completely and shall be at least six inches if soil or similar material is used.<br>[40 CFR 258.21, Minn. R. 7035.2815, subp. 6(A)]                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.3.23        | 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. ADC must meet the following requirements: <ul style="list-style-type: none"> <li>1) must not have a strong or offensive odor;</li> <li>2) must not pose a dusting problem after application is complete;</li> <li>3) must not be stockpiled or used in such a way as to generate contact water that will be released to surface waters or groundwater; and</li> <li>4) must not pose a threat to facility workers or customers.</li> </ul> [40 CFR 258.21, Minn. R. 7035.2815, subp. 6(A)] |
| 3.3.24        | The following alternative daily cover materials have been approved for use at this facility: <ul style="list-style-type: none"> <li>1) Foam cover (Concover, or other similar products).</li> </ul> [40 CFR 258.21, Minn. R. 7035.2815, subp. 6(A)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.3.25        | The Permittee shall place intermediate cover on all filled surfaces of the facility where no additional solid waste will be deposited within 30 days. The intermediate cover shall consist of compacted material of sufficient depth to cover the waste completely, and graded to prevent surface water ponding. If soil or similar material is used, the intermediate cover must be at least 12 inches thick.<br>[Minn. R. 7035.2815, subp. 6(B)]                                                                                                                                                                                                                                                                            |
| 3.3.26        | The Permittee shall begin closure of each fill phase within 30 days after reaching final permitted waste elevations. Each fill phase, upon reaching final permitted waste elevation shall be covered in accordance with the approved plans and specifications, and in accordance with<br>Minn. R. 7035.2815, subp. 6.<br>[Minn. R. 7035.2815, subp. 13(E), Minn. R. 7035.2815, subp. 16(A), Minn. R. 7035.2815, subp. 6(D)]                                                                                                                                                                                                                                                                                                   |
| 3.3.27        | The Permittee shall 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. [Minn. R. 7035.2815, subp. 6(D)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.3.28        | The Permittee shall divert surface water drainage around and away from the site operating area. Slopes greater than 200 feet shall include drainage ways and design features to prevent erosion.<br>[Minn. R. 7035.2815, subp. 5(D)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.3.29        | The Permittee shall maintain the integrity and functionality of the water monitoring network. The Permittee shall 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. [Minn. R. 7035.2815, subp. 10]                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.3.30        | The Permittee shall maintain the integrity and functionality of the leachate detection, collection, and on-site or off-site treatment system. The Permittee shall 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. [Minn. R. 7035.2815, subp. 13]                                                                                                                                                                                                                                                                                                        |
| 3.3.31        | The Permittee shall 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 shall 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. [Minn. R. 7035.2815, subp. 11]                                                                                                                                                                                                                                                                                             |
| 3.3.32        | The Permittee shall identify all trenches or fill areas with permanent markers.<br>[Minn. R. 7035.2815, subp. 13(T)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>TS 001</b> | <b>Tires</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.4.1         | <b>Operating And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.4.2         | The Permittee shall provide a storage area for the collection of waste tires to be removed by a licensed tire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>hauler. No more than 2,000 passenger tire equivalents (PTEs), stored in a 50-foot by 30-foot area. The Permittee shall include the number of tires transferred, and the licensed hauler's MPCA transporter identification number, in the facility's annual report.</p> <p>[Minn. R. 9220.0450, subp. 4, Minn. R. 9220.0480, subp. 3]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.4.3           | <p>A waste tire storage area shall be designated. Only waste tires may be stored in the designated waste tire storage area. This area shall be maintained free of vegetation. [Minn. R. 9220.0450, subp. 3(D)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.4.4           | <p>No operations involving the use of open flames, blow torches, or highly flammable substances shall be conducted within 50 feet of a waste tire pile. [Minn. R. 9220.0450, subp. 3(A)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.4.5           | <p>No waste tire pile shall have an area greater than 5,000 square feet or a vertical height greater than 10 feet. [Minn. R. 9220.0450, subp. 3(F)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.4.6           | <p>A 50-foot fire lane shall be placed around the perimeter of each waste tire pile. Access to the fire lane for emergency vehicles shall be unobstructed at all times. The fire lane shall be maintained free of rubbish and vegetation at all times. [Minn. R. 9220.0450, subp. 3(G)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.4.7           | <p>All tire piles shall be maintained free of mosquitoes and rodents. [Minn. R. 9220.0450, subp. 3(H)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.4.8           | <p>Surface water drainage shall be diverted around and away from the waste tire storage area.</p> <p>[Minn. R. 9220.0450, subp. 3(I)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RE Group</b> | <b>Storage Prior to Recycling</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.5.1           | <p>This section of the permit pertains to the collection of materials prior to transfer for recycling. This facility is permitted to store but not limited to:</p> <p>RE 001 - Appliances (white goods) - no more than 400 items, stored in a 50 foot by 80 foot area.</p> <p>RE 002 - Electronics - no more than 150 items, stored in a fully enclosed 20 foot by 8 foot by 4 foot shipping container.</p> <p>RE 003 - Scrap Metal - no more than 2-3 tons, stored in a small trailer approximately 20 cubic yards in size.</p> <p>RE 004 - Plastic Ag Bags - Agricultural Plastic consists of pieces of agricultural bags that are used by farmers to store silage/haylage that is fed to livestock. The pieces are put into plastic bags that are approximately 4' x 4' x 6. No more than 120 bags will be stored in a 20,000 square foot area south of the landfill. [Minn. R. 7001.0150]</p> |
| 3.5.2           | <b>Design And Construction Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.5.3           | <p>The Permittee shall construct the solid waste recycling area in accordance with the approved plans and specifications. Storage of waste on-site shall comply with</p> <p>Minn. R. 7035.2855. [Minn. R. 7001.0150, subp. 3, Minn. R. 7035.2845, subp. 4(B), Minn. R. 7035.2855]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.5.4           | <p>The Permittee shall design any proposed future expansions or modifications of the solid waste recycling area in accordance with the design requirements outlined in</p> <p>Minn. R. 7035.2845, subp. 3. [Minn. R. 7035.2845, subp. 3]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.5.5           | <b>Operating And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.5.6           | <p>The Permittee shall remove all putrescible residual materials at least once per week. The Permittee shall remove all other residuals at least once per month. [Minn. R. 7035.2845, subp. 4]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.5.7           | <p>All of the recyclable materials that are delivered to or are stored at the recycling facility must be removed from the facility within three years after the date of receipt. The owner or operator must notify the commissioner annually, in the annual report required in subpart 4a, if recyclable materials are stored longer than one year. The annual report must identify the type and approximate weight of material being stored. Recyclable materials that are stored longer than one year must be stored in such a way that the recyclability is retained. [Minn. R. 7035.2845, subp. 4(b)]</p>                                                                                                                                                                                                                                                                                     |
| 3.5.8           | <p>The Permittee shall divert all surface water around and away from either recyclable or reusable materials that are stored outdoors. [Minn. R. 7001.0150, subp. 3]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.5.9           | <p>Recyclable materials must be delivered to the appropriate materials processing facility as outlined in rule or any facility permitted to recycle or compost the material. The Permittee shall not deliver source-separate</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | recyclable materials to a disposal facility or a resource recovery facility that is composting MSW, burning waste, or converting waste to energy unless the commissioner has determined that no other person is willing to accept the recyclable material. [Minn. Stat. 115A.95]                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.5.10        | At least 30 days prior to the effective date of closure, the owner or operator of a recycling facility must post a notice of closure at the entrance by signs indicating the date of closure, and must publish a notice of closure in a local newspaper. [Minn. R. 7035.2845, subp. 6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.5.11        | <b>Specific Conditions.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.5.12        | The Permittee shall provide a separate storage area for the storage and transfer of scrap metal. The Permittee shall manage all scrap metal within the designated area on site. [Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.5.13        | The Permittee shall provide a separate storage area for the storage and transfer of major appliances, as defined in Minn. Stat. 115A.03, such that damage to the units is minimized during handling. The Permittee shall ensure that the proper removal of hazardous components and refrigerant gases is performed by a certified appliance processor. The Permittee shall transfer all appliances off-site at least annually, with the number of appliances recycled and the destination included in the annual report.<br>[Minn. R. 7001.0150, subp. 2]                                                                                                                                                                                                |
| 3.5.14        | 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 shall transport electronics stored at the Facility off-site for recycling or disposal at an appropriately permitted facility at least annually and the Permittee shall note the volume and the destination in the annual report. [Minn. R. 7001.0150, subp. 2] |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>LE 001</b> | <b>Leachate Recirculation, Cells 20-25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.6.1         | <b>Leachate Recirculation Design And Construction Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.6.2         | The Permittee may only conduct leachate recirculation in approved disposal cells that meet or exceed the liner requirements in Minn. R. 7035.2815 Subp. 7. For this Facility, landfill cells approved for leachate recirculation include Cells 20-25. Leachate recirculation at the facility is not authorized until an active gas system is operational in landfill cells where recirculation is to occur. [Minn. R. 7035.2815, subp. 7]                                                                                                                                                                                                                                                                                                                |
| 3.6.3         | Leachate recirculation piping must be positioned vertically above the footprint of the cells approved for recirculation. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.6.4         | The Permittee shall install leachate distribution lines in accordance with the approved plans and this permit. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.6.5         | Distribution piping must be set back at least 50 feet from the exterior side slopes of the approved recirculation cells. Perforations within the distribution piping may not begin within 50 feet of the side slope. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.6.6         | Leachate recirculation through surface application shall not be conducted within 20 feet vertically of the landfill base liner. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.6.7         | The leachate collection system must include a pumping system, flow measurement devices, leak detection, and head level measurement devices. The system must be designed to collect leachate quantity and quality data separately from each landfill cell approved for leachate recirculation. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.6.8         | 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<br>Minn. R. 7035.2815, subp. 6, items D(2), D(6), D(7), and D(9). [Minn. R. 7035.2815, subp. 6(D)2, 6, 7, & 9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.6.9         | A temporary cover consisting of natural soil materials must be at least two feet thick and it must contain an organic top layer of six inches capable of oxidizing methane. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.6.10        | The Permittee shall monitor settlement in each landfill cell that has a temporary cover system. Final cover must be constructed over a cell when settlement in a one year period is less than one percent of the waste thickness, or sooner if additional waste will no longer be placed in the cell. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                               |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.6.11 | <b>Leachate Recirculation Operation And Maintenance Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.6.12 | At least one full-time, certified operator must be dedicated to the operation of the leachate recirculation system. The dedicated operator must be available during and when leachate is being recirculated.<br>[Minn. R. 7001.3300]                                                                                                                                                                                                                                                                              |
| 3.6.13 | Leachate recirculation may be conducted by surface application at the working face in accordance with the approved plans. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                    |
| 3.6.14 | The Permittee shall suspend leachate recirculation in landfill cells that have a waste moisture content in excess of 35 percent by weight. The Permittee shall ensure that the quantity and rate of leachate recirculation does not result in an exceedance of one foot of head over the liner. The Permittee shall consider the incident precipitation on the cell when considering the quantity of leachate to add to the landfill cell, to maintain compliance with the above conditions. [Minn. R. 7001.3300] |
| 3.6.15 | Leachate must be recirculated in a manner that allows for dosing and resting cycles. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.6.16 | Surface application of leachate shall be permitted over waste before the application of daily or intermediate cover, but shall not be conducted during periods of waste acceptance, and shall not be conducted over intermediate cover soils or on frozen waste. [Minn. R. 7001.3300]                                                                                                                                                                                                                             |
| 3.6.17 | The Permittee shall not apply leachate to the landfill working face in excess of 7,450 gallons per acre per day. The Permittee shall not apply leachate to the working face while it's raining, and no ponding or runoff shall be permitted at or near the working face. The Permittee shall visually confirm that there is no ponding or runoff at the working face during and after each application event. [Minn. R. 7001.3300]                                                                                |
| 3.6.18 | The Permittee shall clean and flush the leachate collection piping once every year as a minimum to prevent blockage due to formation of leachate rock in the collection system.<br>[Minn. R. 7001.3300, Minn. R. 7035.2815, Subp. 13(K)]                                                                                                                                                                                                                                                                          |
| 3.6.19 | The Permittee shall ensure that leachate flow meters and leachate head monitoring devices are calibrated annually. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                           |
| 3.6.20 | The Permittee must maintain the integrity and functionality of the leachate detection, collection, and on-site leachate holding areas capable of preventing a release to the environment in accordance with Minn. R. 7035.2815 subp. 9 (K). [Minn. R. 7035.2815, subp. 9(K)]                                                                                                                                                                                                                                      |
| 3.6.21 | The Permittee must develop and implement a site-specific training program for the operation of the leachate recirculation system. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                            |
| 3.6.22 | The Permittee shall prepare and implement an odor control plan as part of the contingency action plan for the facility. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                      |
| 3.6.23 | The dedicated operator must inspect the recirculation 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. If weather conditions or equipment availability prevent repair within two weeks, then the Permittee shall seek MPCA approval of an alternative schedule. [Minn. R. 7001.3300]   |
| 3.6.24 | The Permittee must suspend the recirculation of leachate in affected cells if the liner shows signs of leakage, if leachate seeps develop, if unstable slope conditions are evident, if leachate head levels exceed one foot, or if unresolved odor issues persist. The Permittee shall determine which specific cells are effected. [Minn. R. 7001.3300]                                                                                                                                                         |
| 3.6.25 | The MPCA must be notified within 24 hours after suspending recirculation activities. The Permittee must follow the steps identified in the approved contingency action plan to correct the problem. The Permittee shall comply with Minn. R. 7035.2615, subp. 4 to amend the contingency action plan whenever an event occurs that is not specified in the contingency action plan. [Minn. R. 7035.2815]                                                                                                          |
| 3.6.26 | Leachate recirculation activities may not resume without authorization from the Commissioner.<br>[Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.6.27 | The Permittee shall cease leachate recirculation when the waste mass within the recirculation cell or phase has been stabilized based on leachate stability and landfill gas generation stability. Leachate stability is                                                                                                                                                                                                                                                                                          |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | when the leachate COD is less than 1,000 mg/L and BOD is less than 100 mg/L with a BOD:COD ratio less than 0.1. Landfill gas generation stability is when the gas production of a cell or phase drops to 5 percent of the peak production rate. If inadequate data exists to show the peak production, then modeling may be utilized to determine the peak gas production rate. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                   |
| 3.6.28 | <b>Leachate Recirculation Monitoring Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.6.29 | The Permittee shall monitor the landfill gas and leachate in accordance with the approved Environmental Monitoring Plan. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.6.30 | Active landfill gas control:<br>The Permittee is operating an active landfill gas control system consisting of a blower and a candlestick flare. At the blower, the Permittee shall monitor quarterly as a minimum, the total production, oxygen and methane concentrations and the temperature. At each landfill gas collection point, the Permittee shall monitor quarterly the temperature and total gas production. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                           |
| 3.6.31 | Passive landfill gas control:<br>The Permittee shall monitor the lysimeters beneath the approved recirculation cell for the presence of liquid at least monthly. If liquid is detected, the lysimeter shall be pumped dry and the volume measured and reported in the annual report. At least once per quarter, any liquid detected in the lysimeter shall be analyzed in accordance with sampling and monitoring requirements in this permit or the approved sampling plan. [Minn. R. 7035.2815]                                                                                                                                                                                                                                      |
| 3.6.32 | The leachate parameters for the evaluation of waste stabilization in the recirculation cell or phase are those listed in the sampling and monitoring requirements in this permit. Twice each year, the Permittee shall monitor the leachate at the base of each cell or phase where leachate is recirculated in accordance with the sampling and monitoring requirements of this permit. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                          |
| 3.6.33 | The following are minimum monitoring criteria for completing a water balance separately for each approved recirculation cell: <ol style="list-style-type: none"> <li>1) Mass of Landfilled Waste measured Daily in Tons,</li> <li>2) Leachate Generation measured monthly in Gallons,</li> <li>3) Leachate Recirculated measure Daily in Gallons,</li> <li>4) Incoming Waste Moisture Content measured annually as a percentage (M/M),</li> <li>5) Leachate generation shall be the measured quantity pumped from the landfill liner of each cell.</li> </ol> <p>The Permittee shall complete the water balance annually at a minimum and monthly if the waste moisture content exceeds 30 percent by weight. [Minn. R. 7001.3300]</p> |
| 3.6.34 | The Permittee shall monitor the leachate head level daily from Monday through Friday in leachate recirculation areas by checking head wells, pressure transducers, or head level warning alarms. If the facility, or a disposal phase, does not have head level warning alarms, then the head level must be recorded in a log book daily. For phases that have head level warning alarms, the head level must be recorded monthly at a minimum and also whenever the warning alarm is activated. [Minn. R. 7035.2815]                                                                                                                                                                                                                  |
| 3.6.35 | The recorded pressure transducer readings, and the weekly average of the daily head level readings if applicable, must be reported to the Agency in the annual report. If at any time a head level reading or warning alarm indicates that the leachate head level exceeds one foot, Minn. R. 7035.2815 subp. 9, Item D, the exceedance must be immediately reported to the MPCA. [Minn. R. 7035.2815, subp. 9(D)]                                                                                                                                                                                                                                                                                                                     |
| 3.6.36 | The Permittee shall monitor landfill settlement for each cell in accordance with the approved plans and at least annually. The Permittee shall calculate the percentage of settlement based on the thickness of waste in each cell and report the degree of settlement and an analysis of settlement stability for each cell in the annual report. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                |
| 3.6.37 | <b>Leachate Recirculation Reporting Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.6.38 | The Permittee shall submit an annual report detailing the leachate recirculation activities at the facility in accordance with the approved Leachate Management Plan. [Minn. R. 7035.2585]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.6.39 | The Permittee shall submit in the annual leachate recirculation report planned construction of leachate recirculation related infrastructure for the next year. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.6.40 | The Permittee shall submit as part of the annual report, a construction certification report for areas that have received temporary final cover. This construction certification report shall include survey and soil thickness measurements that document the aerial coverage and thickness of the soil layers. The Permittee shall use natural borrow soil found on site that is consistent with the temporary cover HELP modeling to achieve a temporary cover that rejects 90 percent of the precipitation falling on the temporary cover. [Minn. R. 7001.3300]                                                                                                                                           |
| 3.6.41 | The Permittee shall report landfill gas oxygen levels greater than 5 percent, which is a high oxygen level, in the annual report with a discussion of the possible causes 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 or pathways for air intrusion into the landfill due to the active landfill gas control system upon discovery of a high oxygen level at an individual gas vent, gas well, recirculation lateral or active gas blower. [Minn. R. 7001.3300]                                                        |
| 3.6.42 | The Permittee shall report landfill gas temperatures greater than 140 degrees Fahrenheit, which is a high temperature, in the annual report with a discussion of the possible causes 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 an individual gas vent, gas well, recirculation lateral or the active gas blower monitoring location to address the investigation of possible landfill fires and landfill component damage that may have been caused by high landfill temperatures. [Minn. R. 7001.3300] |
| 3.6.43 | The Permittee shall monitor the landfill carbon monoxide levels whenever a high temperature is observed. The Permittee shall report to the MPCA carbon monoxide levels of greater than 1,000 ppm as a contingency event. Carbon monoxide levels of greater than 1,000 ppm indicates a possible landfill fire. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                            |
| 3.6.44 | <b>Leachate Recirculation Contingency Action Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.6.45 | The Permittee shall address leachate recirculation related contingencies within two weeks of discovery in accordance with Minn. R. 7035.2615 and the approved plans. [Minn. R. 7035.2615]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.6.46 | The Permittee shall address landfill gas contingencies, including oxygen levels greater than 5 percent or a landfill gas temperature greater than 140 degrees Fahrenheit at any monitoring location. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.6.47 | The Permittee shall respond to leachate head levels greater than one foot, leachate seeps on external side slopes that leave or could potentially leave the landfill footprint, and unusually high volume of leachate in leak detection systems as contingency events. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.6.48 | The Permittee shall immediately report leachate spills or releases of greater than five gallons to the Minnesota Duty Officer. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.6.49 | The Permittee shall report and respond to settlement on side slopes that result in areas of the landfill with exterior side slopes of 3:1 horizontal to vertical (e.g. 33%) or greater as a contingency event. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.6.50 | The Permittee shall monitor for cracks in the temporary cover or final cover system that may indicate slope instability or a slope failure and report such findings as a contingency event. [Minn. R. 7035.2815]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.6.51 | The Permittee shall report odor complaints to the MPCA. If odors become a problem at the facility, the Permittee shall update the contingency action plan to address odors. [Minn. R. 7001.3300]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.6.52 | The Permittee shall suspend leachate recirculation in the affected cell or cells due to contingency actions related to leachate recirculation. The MPCA must be notified within 24 hours after suspending recirculation activities. The Permittee must follow the steps identified in the approved contingency action plan to correct the problem, or update the contingency action plan if the contingency event was not identified in the plan. Leachate recirculation in the affected cell(s) may not resume without authorization from the Commissioner. [Minn. R. 7001.3300]                                                                                                                             |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.6.53 | <b>Leachate Recirculation Closure Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.6.54 | The Permittee shall close landfill cells that achieve settlement stability in accordance with the approved plans within 180 days of obtaining survey results that indicate settlement in the cell is less than one percent of the waste thickness over a one year period, or as weather conditions permit. The cover system construction may be scheduled to coincide with other site construction projects with MPCA approval. [Minn. R. 7035.2625] |
| 3.6.55 | The Permittee shall identify on a plan sheet included in the annual report areas of the landfill that have final cover and areas of the landfill that have temporary final cover. [Minn. R. 7001.3300]                                                                                                                                                                                                                                               |
| 3.6.56 | <b>Leachate Recirculation Postclosure Criteria.</b>                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.6.57 | The Permittee shall cease leachate recirculation in a landfill cell during postclosure when the leachate in that cell consistently demonstrates that COD is less than 1,000 mg/L and BOD is less than 100 mg/L with a BOD:COD ratio less than 0.1; and gas production in a cell drops to 5 percent of peak production. [Minn. R. 7001.3300]                                                                                                          |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### 4. Waste activities

##### Disposal Activities

| Waste activity    | ID     | Description               | Status                   | Permitted area (acres) | Permitted capacity (yd <sup>3</sup> ) |
|-------------------|--------|---------------------------|--------------------------|------------------------|---------------------------------------|
| MSW Land Disposal | SA 001 | Unlined MSW Disposal Area | Closed (Still Regulated) | 17                     | 1,132,300                             |
| MSW Land Disposal | SA 002 | Lined MSW Disposal Area   | Active                   | 27                     | 2,602,500                             |

##### Composting, Processing, and Transfer Activities

| Waste activity                                                    | ID | Description | Status | Permitted area | Permitted area units | Permitted capacity | Permitted capacity units |
|-------------------------------------------------------------------|----|-------------|--------|----------------|----------------------|--------------------|--------------------------|
| Composting, processing and transfer do not occur at this facility |    |             |        |                |                      |                    |                          |

##### Storage Activities

| Waste activity | ID     | Description     | Status | Onsite storage | Onsite storage units |
|----------------|--------|-----------------|--------|----------------|----------------------|
| Recycling      | RE 001 | Appliances      | Active | 400            | items                |
| Recycling      | RE 002 | Electronics     | Active | 150            | items                |
| Recycling      | RE 003 | Scrap Metal     | Active | 3              | ton                  |
| Recycling      | RE 004 | Plastic Ag Bags | Active | 120            | items                |

|                     |        |       |        |       |     |
|---------------------|--------|-------|--------|-------|-----|
| Solid Waste Storage | TS 001 | Tires | Active | 2,000 | PTE |
|---------------------|--------|-------|--------|-------|-----|

#### Leachate Storage

| ID     | Description        | Status | Storage type | Capacity (gallons) |
|--------|--------------------|--------|--------------|--------------------|
| LX 001 | Leachate Pond East | Active | Pond         | 500,000            |
| LX 002 | Leachate Pond West | Active | Pond         | 500,000            |
| LX 003 | North Sump         | Active | Sump         | 705                |
| LX 004 | South Sump         | Active | Sump         | 588                |
| LX 005 | Cell 20 Sump       | Active | Sump         | 1,322              |

#### Leachate Management

| ID     | Description                         | Status   | Type          |
|--------|-------------------------------------|----------|---------------|
| LE 001 | Leachate Recirculation, Cells 20-25 | Proposed | Recirculation |

#### Gas Management

| ID     | Description                  | Status   | System type | Control type | Number of wells |
|--------|------------------------------|----------|-------------|--------------|-----------------|
| LG 001 | Passive Gas Extraction Wells | Active   | Passive     | Passive vent | 35              |
| LG 002 | Active Gas Extraction Wells  | Proposed | Active      | Flare        | 6               |

### 5. Submittal/Action requirements

|              |                                                                                                                                                                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SW-89</b> | <b>Brown County Sanitary Landfill</b>                                                                                                                                                                                                                                                                     |
| 5.1.1        | The Permittee shall submit sampling and analysis protocol: Due by 60 days after permit issuance for PFAS sampling of the disposal area according to Minn. R. 7035.2815, subp. 14, item G and shall ensure the protocol is followed during sampling and sample analysis. [Minn. R. 7035.2815, subp. 14(G)] |
| 5.1.2        | The Permittee shall submit an annual facility report : Due annually, by the 1st of March. [Minn. R. 7035.2585]                                                                                                                                                                                            |
| 5.1.3        | The Permittee shall submit a spring water monitoring report : Due annually, by the 30th of June. [Minn. R. 7035.2815, subp. 14(P)]                                                                                                                                                                        |
| 5.1.4        | The Permittee shall submit an autumn water monitoring report : Due annually, by the 1st of March. [Minn. R. 7035.2815, subp. 14(P)]                                                                                                                                                                       |
| 5.1.5        | The Permittee shall submit annual water monitoring evaluation report : Due annually, by the 1st of March. [Minn. R. 7035.2815, subp. 14(Q)]                                                                                                                                                               |

|        |                                                                                                                                                                                                                                                                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1.6  | The Permittee shall submit spring quarter leachate report : Due annually, by the 30th of June.<br>[Minn. R. 7035.2815, subp. 14(P)]                                                                                                                                                                                                                      |
| 5.1.7  | The Permittee shall submit summer quarter leachate report : Due annually, by the 30th of September.<br>[Minn. R. 7035.2815, subp. 14(P)]                                                                                                                                                                                                                 |
| 5.1.8  | The Permittee shall submit autumn quarter leachate report : Due annually, by the 1st of March.<br>[Minn. R. 7035.2815, subp. 14(P)]                                                                                                                                                                                                                      |
| 5.1.9  | The Permittee shall submit quarterly gas monitoring report : Due quarterly in compliance with<br>40 CFR 258.23(b)(2). [40 CFR 258..23((b))((2))]                                                                                                                                                                                                         |
| 5.1.10 | If the Permittee desires to continue the permitted activities beyond the expiration date, a complete permit<br>reissuance application must be received a minimum of 180 days before the expiration date of this Permit.<br>The Permittee shall submit a permit application: Due by 180 days prior to permit expiration.<br>[Minn. R. 7001.0040, subp. 3] |
| 5.1.11 | The Permittee shall submit a sampling and analysis plan (SAP): Due by 60 days after permit issuance to<br>reflect the sampling requirements specified in the limits table of this permit. [Minn. R. 7035.2815, Subp. 14]                                                                                                                                 |
| 5.1.12 | The Permittee shall install : Due by 60 days after permit issuance, a sign posted at the facility entrance gate<br>informing customers that Metro Area MSW is not acceptable for disposal. [Minn. Stat. 473.848]                                                                                                                                         |
|        |                                                                                                                                                                                                                                                                                                                                                          |

## 6. Monitoring stations

| Monitoring type         | Station name                                 | Status            | EquiS ID |
|-------------------------|----------------------------------------------|-------------------|----------|
| Groundwater             | MW-1                                         | Active / Existing | 447992   |
| Groundwater             | MW-101M                                      | Active / Existing | 882752   |
| Groundwater             | MW-104M                                      | Active / Existing | 882753   |
| Groundwater             | MW-17                                        | Active / Existing | 458708   |
| Groundwater             | MW-18R                                       | Active / Existing | 854408   |
| Groundwater             | MW-19                                        | Active / Existing | 521234   |
| Groundwater             | MW-20A                                       | Active / Existing | 791968   |
| Groundwater             | MW-23                                        | Active / Existing | 521238   |
| Groundwater             | MW-29A                                       | Active / Existing | 791969   |
| Groundwater             | MW-3D                                        | Active / Existing | 447994   |
| Groundwater             | MW-3M                                        | Active / Existing | 447997   |
| Groundwater             | MW-5                                         | Active / Existing | 447995   |
| Groundwater             | MW-8A                                        | Active / Existing | 447989   |
| Leachate Sampling Point | LS 004                                       | Active / Existing | LH00139  |
| Leachate Sampling Point | LS 005                                       | Active / Existing | LH00140  |
| Leachate Sampling Point | LS 006                                       | Active / Existing | LH00141  |
| Leachate Sampling Point | Leachate Pond A (East)                       | Active / Existing | LS00204  |
| Leachate Sampling Point | Leachate Pond B (West)                       | Active / Existing | LS00205  |
| Leachate Sampling Point | MH at Leachate Ponds -<br>Untreated Leachate | Active / Existing | LS00206  |
| Liner Leak Detection    | Cell 20 Lysimeter Riser                      | Active / Existing | YL00310  |
| Liner Leak Detection    | Leachate Pond A (East)                       | Active / Existing | YL00283  |

|                      |                                  |                   |         |
|----------------------|----------------------------------|-------------------|---------|
|                      | Lysimeter                        |                   |         |
| Liner Leak Detection | Leachate Pond B (West) Lysimeter | Active / Existing | YL00284 |
| Liner Leak Detection | North Sump Lysimeter             | Active / Existing | YL00282 |
| Liner Leak Detection | South Sump Lysimeter             | Active / Existing | YL00285 |
| Soil                 | Sprayfield                       | Active / Existing | LS00213 |
| Vapor Point          | E-1R                             | Active / Existing | 882754  |
| Vapor Point          | E-2                              | Active / Existing | 882754  |
| Vapor Point          | N-1A                             | Active / Existing | GP01629 |
| Vapor Point          | N-2A                             | Active / Existing | GP01630 |
| Vapor Point          | N-3A                             | Active / Existing | GP01631 |
| Vapor Point          | N-4A                             | Active / Existing | GP01632 |
| Vapor Point          | N-5D                             | Active / Existing | 882756  |
| Vapor Point          | N-5S                             | Active / Existing | 882765  |
| Vapor Point          | N-6                              | Active / Existing | 882757  |
| Vapor Point          | N-7                              | Active / Existing | 882758  |
| Vapor Point          | S-1                              | Active / Existing | GP01635 |
| Vapor Point          | S-2                              | Active / Existing | GP01636 |
| Vapor Point          | W-1                              | Active / Existing | GP01633 |

## 7. Monitoring groups

| Type                             | Name                                             | Group description                                     | Assigned stations                                                                                                                       |
|----------------------------------|--------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Groundwater Monitoring Group     | Landfill Groundwater Monitoring                  | Landfill Groundwater Monitoring - Two times per year  | MW-1, MW-101M, MW-17, MW-18R, MW-19, MW-20A, MW-23, MW-29A, MW-3D, MW-3M, MW-5, MW-8A                                                   |
| Groundwater Monitoring Group     | Landfill PFAS Monitoring Group                   | PFAS Monitoring - Two times per year                  | MW-1, MW-101M, MW-17, MW-20A, MW-23, MW-29A, MW-5                                                                                       |
| Groundwater Monitoring Group     | Leachate Land Application Groundwater Monitoring | Leachate Land Application Groundwater Monitoring      | MW-104M, MW-20A, MW-23, MW-29A                                                                                                          |
| Solids Analysis Monitoring Group | Leachate Land Application Field Soil Sample      | Leachate Land Application Field Soil Sample           | Sprayfield                                                                                                                              |
| Leachate Monitoring Group        | Leachate Head Level Monitoring                   | Continuous monitoring of leachate head level in sumps | LS 004, LS 005, LS 006                                                                                                                  |
| Leachate Monitoring Group        | Pond and Landfill Leak Detection Sampling        | To be sampled when liquid is present.                 | Cell 20 Lysimeter Riser, Leachate Pond A (East) Lysimeter, Leachate Pond B (West) Lysimeter, North Sump Lysimeter, South Sump Lysimeter |
| Leachate Monitoring Group        | Treated Leachate Sampling                        | Treated leachate sampling prior to recirculation      | Leachate Pond A (East), Leachate Pond B (West)                                                                                          |
| Leachate Monitoring Group        | Untreated Leachate Sampling                      | Untreated Leachate                                    | MH at Leachate Ponds -                                                                                                                  |

| Type                       | Name                         | Group description      | Assigned stations                                                      |
|----------------------------|------------------------------|------------------------|------------------------------------------------------------------------|
|                            |                              |                        | Untreated Leachate                                                     |
| Vapor/Gas Monitoring Group | Methane Gas Probe Monitoring | Methane Gas Monitoring | E-1R, E-2, N-1A, N-2A, N-3A, N-4A, N-5D, N-5S, N-6, N-7, S-1, S-2, W-1 |

## 8. Sampling and monitoring requirements

| Type                                   | Parameter                              | CAS        | Limit | Unit | Sampling freq. |
|----------------------------------------|----------------------------------------|------------|-------|------|----------------|
| <b>Landfill Groundwater Monitoring</b> |                                        |            |       |      |                |
| 8.1.1                                  | Alkalinity, Total as CaCO <sub>3</sub> | T-005      |       | ug/L | Apr, Oct       |
| 8.1.2                                  | Solids, Total Dissolved (TDS)          | C010       |       | ug/L | Apr, Oct       |
| 8.1.3                                  | Chloride                               | 16887-00-6 |       | ug/L | Oct            |
| 8.1.4                                  | Cyanide, Total (as CN)                 | 57-12-5    | 25    | ug/L | Oct            |
| 8.1.5                                  | Fluoride                               | 16984-48-8 | 1000  | ug/L | Oct            |
| 8.1.6                                  | Phosphorus                             | 7723-14-0  |       | ug/L | Oct            |
| 8.1.7                                  | Sulfate                                | 14808-79-8 |       | ug/L | Oct            |
| 8.1.8                                  | Arsenic                                | 7440-38-2  | 2.5   | ug/L | Apr, Oct       |
| 8.1.9                                  | Barium                                 | 7440-39-3  | 500   | ug/L | Oct            |
| 8.1.10                                 | Antimony                               | 7440-36-0  | 1.5   | ug/L | Oct            |
| 8.1.11                                 | Beryllium                              | 7440-41-7  | 0.02  | ug/L | Oct            |
| 8.1.12                                 | Boron                                  | 7440-42-8  | 125   | ug/L | Apr, Oct       |
| 8.1.13                                 | Cadmium                                | 7440-43-9  | 0.125 | ug/L | Oct            |
| 8.1.14                                 | Calcium                                | 7440-70-2  |       | ug/L | Oct            |
| 8.1.15                                 | Chromium                               | 7440-47-3  | 25    | ug/L | Oct            |
| 8.1.16                                 | Cobalt                                 | 7440-48-4  |       | ug/L | Oct            |
| 8.1.17                                 | Copper                                 | 7440-50-8  |       | ug/L | Oct            |
| 8.1.18                                 | Iron                                   | 7439-89-6  |       | ug/L | Oct            |
| 8.1.19                                 | Lead                                   | 7439-92-1  | 3.75  | ug/L | Oct            |
| 8.1.20                                 | Lithium                                | 7439-93-2  |       | ug/L | Oct            |
| 8.1.21                                 | Magnesium                              | 7439-95-4  |       | ug/L | Oct            |
| 8.1.22                                 | Manganese                              | 7439-96-5  | 25    | ug/L | Apr, Oct       |
| 8.1.23                                 | Mercury                                | 7439-97-6  | 0.5   | ug/L | Oct            |
| 8.1.24                                 | Molybdenum                             | 7439-98-7  |       | ug/L | Oct            |
| 8.1.25                                 | Nickel                                 | 7440-02-0  | 25    | ug/L | Apr, Oct       |
| 8.1.26                                 | Potassium                              | 7440-09-7  |       | ug/L | Oct            |
| 8.1.27                                 | Selenium                               | 7782-49-2  | 7.5   | ug/L | Oct            |
| 8.1.28                                 | Sodium                                 | 7440-23-5  |       | ug/L | Oct            |
| 8.1.29                                 | Thallium                               | 7440-28-0  | 0.15  | ug/L | Oct            |
| 8.1.30                                 | Tin                                    | 7440-31-5  | 1000  | ug/L | Oct            |
| 8.1.31                                 | Zinc                                   | 7440-66-6  | 500   | ug/L | Oct            |

| Type   | Parameter                                   | CAS        | Limit  | Unit | Sampling freq. |
|--------|---------------------------------------------|------------|--------|------|----------------|
| 8.1.32 | Bicarbonates (HCO <sub>3</sub> )            | 71-52-3    |        | ug/L | Apr, Oct       |
| 8.1.33 | 1,4-Dioxane (p-Dioxane)                     | 123-91-1   | 0.25   | ug/L | Apr, Oct       |
| 8.1.34 | 2,2-Dichloropropane                         | 594-20-7   |        | ug/L | Apr, Oct       |
| 8.1.35 | Carbon, Total Organic (TOC)                 | 7440-44-0  |        | ug/L | Apr, Oct       |
| 8.1.36 | Acetone                                     | 67-64-1    | 750    | ug/L | Apr, Oct       |
| 8.1.37 | Allyl chloride (3 chloropropene)            | 107-05-1   | 7.5    | ug/L | Apr, Oct       |
| 8.1.38 | Benzene                                     | 71-43-2    | 0.5    | ug/L | Apr, Oct       |
| 8.1.39 | Dichloromethane (Methylene chloride)        | 75-09-2    | 1.25   | ug/L | Apr, Oct       |
| 8.1.40 | Tetrachloroethylene (Perchloroethylene)     | 127-18-4   | 1      | ug/L | Apr, Oct       |
| 8.1.41 | Trichloroethylene (TCE)                     | 79-01-6    | .1     | ug/L | Apr, Oct       |
| 8.1.42 | 1,1,1,2-Tetrachloroethane                   | 630-20-6   | 17.5   | ug/L | Apr, Oct       |
| 8.1.43 | 1,1,1-Trichloroethane                       | 71-55-6    | 50     | ug/L | Apr, Oct       |
| 8.1.44 | 1,1,2,2-Tetrachloroethane                   | 79-34-5    | .5     | ug/L | Apr, Oct       |
| 8.1.45 | 1,1,2-Trichloroethane                       | 79-00-5    | .75    | ug/L | Apr, Oct       |
| 8.1.46 | 1,1,2-Trichlorotrifluoroethane              | 76-13-1    | 50000  | ug/L | Apr, Oct       |
| 8.1.47 | 1,1-Dichloroethane                          | 75-34-3    | 20     | ug/L | Apr, Oct       |
| 8.1.48 | 1,1-Dichloroethylene (Vinylidene chloride)  | 75-35-4    | 1.75   | ug/L | Apr, Oct       |
| 8.1.49 | 1,1-Dichloropropene                         | 563-58-6   |        | ug/L | Apr, Oct       |
| 8.1.50 | 1,2-(trans-) Dichloroethylene               | 156-60-5   | 2.25   | ug/L | Apr, Oct       |
| 8.1.51 | 1,2,3-Trichlorobenzene                      | 87-61-6    |        | ug/L | Apr, Oct       |
| 8.1.52 | 1,2,3-Trichloropropane                      | 96-18-4    | .00075 | ug/L | Apr, Oct       |
| 8.1.53 | 1,2,4-Trichlorobenzene                      | 120-82-1   | 1      | ug/L | Apr, Oct       |
| 8.1.54 | 1,2,4-Trimethylbenzene                      | 95-63-6    | 7.5    | ug/L | Apr, Oct       |
| 8.1.55 | 1,2-Dibromo-3-chloropropane                 | 96-12-8    | .05    | ug/L | Apr, Oct       |
| 8.1.56 | 1,2-Dibromoethane (Ethylene dibromide); EDB | 106-93-4   | .001   | ug/L | Apr, Oct       |
| 8.1.57 | 1,2-Dichlorobenzene (ortho)                 | 95-50-1    | 150    | ug/L | Apr, Oct       |
| 8.1.58 | 1,2-Dichloroethane                          | 107-06-2   | .25    | ug/L | Apr, Oct       |
| 8.1.59 | 1,2-Dichloroethylene                        | 540-59-0   |        | ug/L | Apr, Oct       |
| 8.1.60 | 1,2-Dichloroethylene (cis-)                 | 156-59-2   | 1.5    | ug/L | Apr, Oct       |
| 8.1.61 | 1,2-Dichloropropane                         | 78-87-5    | 0.75   | ug/L | Apr, Oct       |
| 8.1.62 | 1,3,5-Trimethylbenzene                      | 108-67-8   | 7.5    | ug/L | Apr, Oct       |
| 8.1.63 | 1,3-Dichlorobenzene                         | 541-73-1   |        | ug/L | Apr, Oct       |
| 8.1.64 | 1,3-Dichloropropane                         | 142-28-9   |        | ug/L | Apr, Oct       |
| 8.1.65 | 1,3-Dichloropropene (cis-)                  | 10061-01-5 |        | ug/L | Apr, Oct       |

| Type   | Parameter                                     | CAS        | Limit | Unit | Sampling freq. |
|--------|-----------------------------------------------|------------|-------|------|----------------|
| 8.1.66 | 1,3-Dichloropropene (trans-)                  | 10061-02-6 |       | ug/L | Apr, Oct       |
| 8.1.67 | 1,4-Dichlorobenzene (para-)                   | 106-46-7   | 12.5  | ug/L | Apr, Oct       |
| 8.1.68 | 2-Chlorotoluene                               | 95-49-8    |       | ug/L | Apr, Oct       |
| 8.1.69 | 4-Chlorotoluene (para-)                       | 106-43-4   |       | ug/L | Apr, Oct       |
| 8.1.70 | Bromobenzene                                  | 108-86-1   |       | ug/L | Apr, Oct       |
| 8.1.71 | Bromochloromethane (Chlorobromomethane)       | 74-97-5    |       | ug/L | Apr, Oct       |
| 8.1.72 | Bromodichloromethane (Dichlorobromomethane)   | 75-27-4    | 0.75  | ug/L | Apr, Oct       |
| 8.1.73 | Bromoform                                     | 75-25-2    | 10    | ug/L | Apr, Oct       |
| 8.1.74 | Bromomethane (Methyl bromide)                 | 74-83-9    | 2.5   | ug/L | Apr, Oct       |
| 8.1.75 | Carbon tetrachloride                          | 56-23-5    | .25   | ug/L | Apr, Oct       |
| 8.1.76 | Chlorobenzene (Monochlorobenzene)             | 108-90-7   | 25    | ug/L | Apr, Oct       |
| 8.1.77 | Chlorodibromomethane (Dibromochloromethane)   | 124-48-1   | 2.5   | ug/L | Apr, Oct       |
| 8.1.78 | Chloroethane                                  | 75-00-3    |       | ug/L | Apr, Oct       |
| 8.1.79 | Chloroform                                    | 67-66-3    | 5     | ug/L | Apr, Oct       |
| 8.1.80 | Cumene (Isopropylbenzene)                     | 98-82-8    | 75    | ug/L | Apr, Oct       |
| 8.1.81 | Dibromomethane (Methylene bromide)            | 74-95-3    |       | ug/L | Apr, Oct       |
| 8.1.82 | Dichlorodifluoromethane                       | 75-71-8    | 125   | ug/L | Apr, Oct       |
| 8.1.83 | Dichlorofluoromethane                         | 75-43-4    | 5     | ug/L | Apr, Oct       |
| 8.1.84 | Ethyl ether                                   | 60-29-7    | 50    | ug/L | Apr, Oct       |
| 8.1.85 | Ethylbenzene                                  | 100-41-4   | 10    | ug/L | Apr, Oct       |
| 8.1.86 | Hexachlorobutadiene                           | 87-68-3    | .25   | ug/L | Apr, Oct       |
| 8.1.87 | Chloromethane                                 | 74-87-3    |       | ug/L | Apr, Oct       |
| 8.1.88 | Methyl ethyl ketone (MEK)                     | 78-93-3    | 1000  | ug/L | Apr, Oct       |
| 8.1.89 | Methyl isobutyl ketone (4-Methyl-2-pentanone) | 108-10-1   | 75    | ug/L | Apr, Oct       |
| 8.1.90 | Methyl-tert-butylether                        | 1634-04-4  | 15    | ug/L | Apr, Oct       |
| 8.1.91 | Naphthalene                                   | 91-20-3    | 17.5  | ug/L | Apr, Oct       |
| 8.1.92 | n-Butylbenzene                                | 104-51-8   |       | ug/L | Apr, Oct       |
| 8.1.93 | n-Propylbenzene                               | 103-65-1   |       | ug/L | Apr, Oct       |
| 8.1.94 | p-Isopropyltoluene                            | 99-87-6    |       | ug/L | Apr, Oct       |
| 8.1.95 | sec-Butylbenzene                              | 135-98-8   |       | ug/L | Apr, Oct       |
| 8.1.96 | Styrene                                       | 100-42-5   | 25    | ug/L | Apr, Oct       |
| 8.1.97 | tert-Butylbenzene                             | 98-06-6    |       | ug/L | Apr, Oct       |
| 8.1.98 | Tetrahydrofuran                               | 109-99-9   | 150   | ug/L | Apr, Oct       |
| 8.1.99 | Toluene                                       | 108-88-3   | 17.5  | ug/L | Apr, Oct       |

| Type                                               | Parameter                                        | CAS         | Limit       | Unit      | Sampling freq. |
|----------------------------------------------------|--------------------------------------------------|-------------|-------------|-----------|----------------|
| 8.1.100                                            | Trichlorofluoromethane                           | 75-69-4     | 500         | ug/L      | Apr, Oct       |
| 8.1.101                                            | Vinyl chloride<br>(chloroethene)                 | 75-01-4     | .05         | ug/L      | Apr, Oct       |
| 8.1.102                                            | Xylene                                           | 1330-20-7   | 75          | ug/L      | Apr, Oct       |
| 8.1.103                                            | Dissolved Oxygen, Field                          | T-105       |             | ug/L      | Apr, Oct       |
| 8.1.104                                            | Eh (Oxidation potential)                         | 4           |             | mV        | Apr, Oct       |
| 8.1.105                                            | pH                                               | C006        |             | SU        | Apr, Oct       |
| 8.1.106                                            | Specific Conductance                             | C-011       |             | umhos/cm  | Apr, Oct       |
| 8.1.107                                            | Static Water Level<br>(Elevation, MSL)           | PCA-001     |             | ft msl    | Apr, Oct       |
| 8.1.108                                            | Temperature                                      | T-121       |             | degrees C | Apr, Oct       |
| 8.1.109                                            | Turbidity                                        | G-019       |             | NTU       | Apr, Oct       |
| 8.1.110                                            | Color                                            | M002        |             | SU        | Apr, Oct       |
|                                                    |                                                  |             |             |           |                |
| <b>Landfill PFAS Monitoring Group</b>              |                                                  |             |             |           |                |
| 8.2.1                                              | Perfluoropentanesulfonic acid (PFPeS)            | 2706-91-4   |             | ug/L      | Apr, Oct       |
| 8.2.2                                              | Perfluorobutane sulfonate (PFBS)                 | 45187-15-3  | 0.025       | ug/L      | Apr, Oct       |
| 8.2.3                                              | Perfluorobutanoic acid (PFBA)                    | 375-22-4    | 1.75        | ug/L      | Apr, Oct       |
| 8.2.4                                              | Perfluoroheptanoic acid (PFHpA)                  | 375-85-9    |             | ug/L      | Apr, Oct       |
| 8.2.5                                              | Perfluorohexane sulfonate (PFH1S / PFHS / PFHxS) | 108427-53-8 | 0.0025      | ug/L      | Apr, Oct       |
| 8.2.6                                              | Perfluorohexanoic acid (PFHxA)                   | 307-24-4    | 0.05        | ug/L      | Apr, Oct       |
| 8.2.7                                              | Perfluorooctane sulfonate (PFOS)                 | 45298-90-6  | 0.000575    | ug/L      | Apr, Oct       |
| 8.2.8                                              | Perfluorooctanoic acid (PFOA)                    | 335-67-1    | 0.000001975 | ug/L      | Apr, Oct       |
| 8.2.9                                              | Perfluoropentanoic acid (PFPeA)                  | 2706-90-3   |             | ug/L      | Apr, Oct       |
|                                                    |                                                  |             |             |           |                |
| <b>Leachate Head Level Monitoring</b>              |                                                  |             |             |           |                |
| 8.3.1                                              | Leachate Head                                    |             | 12          | in        | Jan-Dec        |
|                                                    |                                                  |             |             |           |                |
| <b>Leachate Land Application Field Soil Sample</b> |                                                  |             |             |           |                |
| 8.4.1                                              | Alkalinity, Total as CaCO3                       | T-005       |             | mg/kg     | Oct            |
| 8.4.2                                              | Chloride, Total                                  | 16887-00-6  |             | mg/kg     | Oct            |
| 8.4.3                                              | Bromine (as Br)                                  | 7726-95-6   |             | mg/kg     | Oct            |

| Type                                                    | Parameter                                        | CAS         | Limit | Unit     | Sampling freq. |
|---------------------------------------------------------|--------------------------------------------------|-------------|-------|----------|----------------|
| 8.4.4                                                   | Cation-Anion Balance                             | F841        |       | mg/kg    | Oct            |
| 8.4.5                                                   | Chloride                                         | 16887-00-6  |       | mg/kg    | Oct            |
| 8.4.6                                                   | Cyanide, Total (as CN)                           | 57-12-5     |       | mg/kg    | Oct            |
| 8.4.7                                                   | Fluoride                                         | 16984-48-8  |       | mg/kg    | Oct            |
| 8.4.8                                                   | Organic Matter, Total in Soil                    | C001        |       | mg/kg    | Oct            |
| 8.4.9                                                   | Phosphorus, BRAY-1 Ext In Soil                   | 7723-14-0   |       | mg/kg    | Oct            |
| 8.4.10                                                  | Sodium Adsorption Ratio (SAR)                    | 7440-23-5   |       | mg/kg    | Oct            |
| 8.4.11                                                  | Arsenic                                          | 7440-38-2   |       | mg/kg    | Oct            |
| 8.4.12                                                  | Boron                                            | 7440-42-8   |       | mg/kg    | Oct            |
| 8.4.13                                                  | Cadmium                                          | 7440-43-9   |       | mg/kg    | Oct            |
| 8.4.14                                                  | Copper                                           | 7440-50-8   |       | mg/kg    | Oct            |
| 8.4.15                                                  | Lead                                             | 7439-92-1   |       | mg/kg    | Oct            |
| 8.4.16                                                  | Nickel                                           | 7440-02-0   |       | mg/kg    | Oct            |
| 8.4.17                                                  | Potassium, NH4AC, Exch In Soil                   | 7440-09-7   |       | mg/kg    | Oct            |
| 8.4.18                                                  | Selenium                                         | 7782-49-2   |       | mg/kg    | Oct            |
| 8.4.19                                                  | Zinc                                             | 7440-66-6   |       | mg/kg    | Oct            |
| 8.4.20                                                  | Perfluorobutane sulfonate (PFBS)                 | 45187-15-3  |       | mg/kg    | Oct            |
| 8.4.21                                                  | Perfluorobutanoic acid (PFBA)                    | 375-22-4    |       | mg/kg    | Oct            |
| 8.4.22                                                  | Perfluoroheptanoic acid (PFHpA)                  | 375-85-9    |       | mg/kg    | Oct            |
| 8.4.23                                                  | Perfluorohexane sulfonate (PFH1S / PFHS / PFHxS) | 108427-53-8 |       | mg/kg    | Oct            |
| 8.4.24                                                  | Perfluorohexanoic acid (PFHxA)                   | 307-24-4    |       | mg/kg    | Oct            |
| 8.4.25                                                  | Perfluorooctane sulfonate (PFOS)                 | 45298-90-6  |       | mg/kg    | Oct            |
| 8.4.26                                                  | Perfluorooctanoic acid (PFOA)                    | 335-67-1    |       | %        | Oct            |
| 8.4.27                                                  | Perfluoropentanoic acid (PFPeA)                  | 2706-90-3   |       | lb/ac    | Oct            |
| 8.4.28                                                  | pH                                               | C006        |       | SU       | Oct            |
| 8.4.29                                                  | Specific Conductance                             | C-011       |       | umhos/cm | Oct            |
| 8.4.30                                                  | Perfluoropentanesulfonic acid (PFPeS)            | 2706-91-4   |       | ug/L     | Oct            |
| 8.4.31                                                  | Nitrate (as Nitrogen)                            | 14797-55-8  |       | mg/kg    | Oct            |
|                                                         |                                                  |             |       |          |                |
| <b>Leachate Land Application Groundwater Monitoring</b> |                                                  |             |       |          |                |

| Type   | Parameter                               | CAS        | Limit | Unit | Sampling freq. |
|--------|-----------------------------------------|------------|-------|------|----------------|
| 8.5.1  | Ammonia                                 | 7664-41-7  |       | ug/L | Apr, Jul, Oct  |
| 8.5.2  | Chloride                                | 16887-00-6 |       | ug/L | Apr, Jul, Oct  |
| 8.5.3  | Cyanide, Total (as CN)                  | 57-12-5    | 25    | ug/L | Apr, Jul, Oct  |
| 8.5.4  | Fluoride                                | 16984-48-8 | 1000  | ug/L | Apr, Jul, Oct  |
| 8.5.5  | Phosphorus                              | 7723-14-0  |       | ug/L | Apr, Jul, Oct  |
| 8.5.6  | Sulfate                                 | 14808-79-8 |       | ug/L | Apr, Jul, Oct  |
| 8.5.7  | Arsenic                                 | 7440-38-2  | 2.5   | ug/L | Apr, Jul, Oct  |
| 8.5.8  | Barium                                  | 7440-39-3  | 500   | ug/L | Apr, Jul, Oct  |
| 8.5.9  | Antimony                                | 7440-36-0  | 1.5   | ug/L | Apr, Jul, Oct  |
| 8.5.10 | Beryllium                               | 7440-41-7  | .02   | ug/L | Apr, Jul, Oct  |
| 8.5.11 | Boron                                   | 7440-42-8  | 125   | ug/L | Apr, Jul, Oct  |
| 8.5.12 | Cadmium                                 | 7440-43-9  | .125  | ug/L | Apr, Jul, Oct  |
| 8.5.13 | Calcium                                 | 7440-70-2  |       | ug/L | Apr, Jul, Oct  |
| 8.5.14 | Chromium                                | 7440-47-3  | 25    | ug/L | Apr, Jul, Oct  |
| 8.5.15 | Cobalt                                  | 7440-48-4  |       | ug/L | Apr, Jul, Oct  |
| 8.5.16 | Copper                                  | 7440-50-8  |       | ug/L | Apr, Jul, Oct  |
| 8.5.17 | Iron                                    | 7439-89-6  |       | ug/L | Apr, Jul, Oct  |
| 8.5.18 | Lead                                    | 7439-92-1  | 3.75  | ug/L | Apr, Jul, Oct  |
| 8.5.19 | Lithium                                 | 7439-93-2  |       | ug/L | Apr, Jul, Oct  |
| 8.5.20 | Magnesium                               | 7439-95-4  |       | ug/L | Apr, Jul, Oct  |
| 8.5.21 | Manganese                               | 7439-96-5  | 25    | ug/L | Apr, Jul, Oct  |
| 8.5.22 | Mercury                                 | 7439-97-6  | .5    | ug/L | Apr, Jul, Oct  |
| 8.5.23 | Molybdenum                              | 7439-98-7  |       | ug/L | Apr, Jul, Oct  |
| 8.5.24 | Nickel                                  | 7440-02-0  | 25    | ug/L | Apr, Jul, Oct  |
| 8.5.25 | Nitrate (as Nitrogen)                   | 14797-55-8 | 2500  | ug/L | Apr, Jul, Oct  |
| 8.5.26 | Potassium                               | 7440-09-7  |       | ug/L | Apr, Jul, Oct  |
| 8.5.27 | Selenium                                | 7782-49-2  | 7.5   | ug/L | Apr, Jul, Oct  |
| 8.5.28 | Sodium                                  | 7440-23-5  |       | ug/L | Apr, Jul, Oct  |
| 8.5.29 | Thallium                                | 7440-28-0  | .15   | ug/L | Apr, Jul, Oct  |
| 8.5.30 | Tin                                     | 7440-31-5  | 1000  | ug/L | Apr, Jul, Oct  |
| 8.5.31 | Zinc                                    | 7440-66-6  | 500   | ug/L | Apr, Jul, Oct  |
| 8.5.32 | 1,4-Dioxane (p-Dioxane)                 | 123-91-1   | .25   | ug/L | Apr, Jul, Oct  |
| 8.5.33 | 2,2-Dichloropropane                     | 594-20-7   |       | ug/L | Apr, Jul, Oct  |
| 8.5.34 | Acetone                                 | 67-64-1    | 750   | ug/L | Apr, Jul, Oct  |
| 8.5.35 | Allyl chloride (3 chloropropene)        | 107-05-1   | 7.5   | ug/L | Apr, Jul, Oct  |
| 8.5.36 | Benzene                                 | 71-43-2    | .5    | ug/L | Apr, Jul, Oct  |
| 8.5.37 | Dichloromethane (Methylene chloride)    | 75-09-2    | 1.25  | ug/L | Apr, Jul, Oct  |
| 8.5.38 | Tetrachloroethylene (Perchloroethylene) | 127-18-4   | 1     | ug/L | Apr, Jul, Oct  |
| 8.5.39 | Trichloroethylene (TCE)                 | 79-01-6    | .1    | ug/L | Apr, Jul, Oct  |
| 8.5.40 | 1,1,1,2-Tetrachloroethane               | 630-20-6   | 17.5  | ug/L | Apr, Jul, Oct  |

| Type   | Parameter                                   | CAS        | Limit  | Unit | Sampling freq. |
|--------|---------------------------------------------|------------|--------|------|----------------|
| 8.5.41 | 1,1,1-Trichloroethane                       | 71-55-6    | 50     | ug/L | Apr, Jul, Oct  |
| 8.5.42 | 1,1,2,2-Tetrachloroethane                   | 79-34-5    | .5     | ug/L | Apr, Jul, Oct  |
| 8.5.43 | 1,1,2-Trichloroethane                       | 79-00-5    | .75    | ug/L | Apr, Jul, Oct  |
| 8.5.44 | 1,1,2-Trichlorotrifluoroethane              | 76-13-1    | 50000  | ug/L | Apr, Jul, Oct  |
| 8.5.45 | 1,1-Dichloroethane                          | 75-34-3    | 20     | ug/L | Apr, Jul, Oct  |
| 8.5.46 | 1,1-Dichloroethylene (Vinylidene chloride)  | 75-35-4    | 1.75   | ug/L | Apr, Jul, Oct  |
| 8.5.47 | 1,1-Dichloropropene                         | 563-58-6   |        | ug/L | Apr, Jul, Oct  |
| 8.5.48 | 1,2-(trans-) Dichloroethylene               | 156-60-5   | 2.25   | ug/L | Apr, Jul, Oct  |
| 8.5.49 | 1,2,3-Trichlorobenzene                      | 87-61-6    |        | ug/L | Apr, Jul, Oct  |
| 8.5.50 | 1,2,3-Trichloropropane                      | 96-18-4    | .00075 | ug/L | Apr, Jul, Oct  |
| 8.5.51 | 1,2,4-Trichlorobenzene                      | 120-82-1   | 1      | ug/L | Apr, Jul, Oct  |
| 8.5.52 | 1,2,4-Trimethylbenzene                      | 95-63-6    | 7.5    | ug/L | Apr, Jul, Oct  |
| 8.5.53 | 1,2-Dibromo-3-chloropropane                 | 96-12-8    | .05    | ug/L | Apr, Jul, Oct  |
| 8.5.54 | 1,2-Dibromoethane (Ethylene dibromide); EDB | 106-93-4   | .001   | ug/L | Apr, Jul, Oct  |
| 8.5.55 | 1,2-Dichlorobenzene (ortho)                 | 95-50-1    | 150    | ug/L | Apr, Jul, Oct  |
| 8.5.56 | 1,2-Dichloroethane                          | 107-06-2   | .25    | ug/L | Apr, Jul, Oct  |
| 8.5.57 | 1,2-Dichloroethylene                        | 540-59-0   |        | ug/L | Apr, Jul, Oct  |
| 8.5.58 | 1,2-Dichloroethylene (cis-)                 | 156-59-2   | 1.5    | ug/L | Apr, Jul, Oct  |
| 8.5.59 | 1,2-Dichloropropane                         | 78-87-5    | 1.25   | ug/L | Apr, Jul, Oct  |
| 8.5.60 | 1,3,5-Trimethylbenzene                      | 108-67-8   | 7.5    | ug/L | Apr, Jul, Oct  |
| 8.5.61 | 1,3-Dichlorobenzene                         | 541-73-1   |        | ug/L | Apr, Jul, Oct  |
| 8.5.62 | 1,3-Dichloropropane                         | 142-28-9   |        | ug/L | Apr, Jul, Oct  |
| 8.5.63 | 1,3-Dichloropropene (cis-)                  | 10061-01-5 |        | ug/L | Apr, Jul, Oct  |
| 8.5.64 | 1,3-Dichloropropene (trans-)                | 10061-02-6 |        | ug/L | Apr, Jul, Oct  |
| 8.5.65 | 1,4-Dichlorobenzene (para-)                 | 106-46-7   | 2.5    | ug/L | Apr, Jul, Oct  |
| 8.5.66 | 2-Chlorotoluene                             | 95-49-8    |        | ug/L | Apr, Jul, Oct  |
| 8.5.67 | 4-Chlorotoluene (para-)                     | 106-43-4   |        | ug/L | Apr, Jul, Oct  |
| 8.5.68 | Bromobenzene                                | 108-86-1   |        | ug/L | Apr, Jul, Oct  |
| 8.5.69 | Bromochloromethane (Chlorobromomethane)     | 74-97-5    |        | ug/L | Apr, Jul, Oct  |
| 8.5.70 | Bromodichloromethane (Dichlorobromomethane) | 75-27-4    | 0.75   | ug/L | Apr, Jul, Oct  |
| 8.5.71 | Bromoform                                   | 75-25-2    | 10     | ug/L | Apr, Jul, Oct  |
| 8.5.72 | Bromomethane (Methyl bromide)               | 74-83-9    | 2.5    | ug/L | Apr, Jul, Oct  |
| 8.5.73 | Carbon tetrachloride                        | 56-23-5    | .25    | ug/L | Apr, Jul, Oct  |
| 8.5.74 | Chlorobenzene                               | 108-90-7   | 25     | ug/L | Apr, Jul, Oct  |

| Type    | Parameter                                           | CAS         | Limit    | Unit | Sampling freq. |
|---------|-----------------------------------------------------|-------------|----------|------|----------------|
|         | (Monochlorobenzene)                                 |             |          |      |                |
| 8.5.75  | Chlorodibromomethane<br>(Dibromochloromethane)      | 124-48-1    | 2.5      | ug/L | Apr, Jul, Oct  |
| 8.5.76  | Chloroethane                                        | 75-00-3     |          | ug/L | Apr, Jul, Oct  |
| 8.5.77  | Chloroform                                          | 67-66-3     | 5        | ug/L | Apr, Jul, Oct  |
| 8.5.78  | Cumene<br>(Isopropylbenzene)                        | 98-82-8     | 20       | ug/L | Apr, Jul, Oct  |
| 8.5.79  | Dibromomethane<br>(Methylene bromide)               | 74-95-3     |          | ug/L | Apr, Jul, Oct  |
| 8.5.80  | Dichlorodifluoromethane                             | 75-71-8     | 125      | ug/L | Apr, Jul, Oct  |
| 8.5.81  | Dichlorofluoromethane                               | 75-43-4     | 5        | ug/L | Apr, Jul, Oct  |
| 8.5.82  | Ethyl ether                                         | 60-29-7     | 50       | ug/L | Apr, Jul, Oct  |
| 8.5.83  | Ethylbenzene                                        | 100-41-4    | 10       | ug/L | Apr, Jul, Oct  |
| 8.5.84  | Hexachlorobutadiene                                 | 87-68-3     | .25      | ug/L | Apr, Jul, Oct  |
| 8.5.85  | Chloromethane                                       | 74-87-3     |          | ug/L | Apr, Jul, Oct  |
| 8.5.86  | Methyl ethyl ketone (MEK)                           | 78-93-3     | 1000     | ug/L | Apr, Jul, Oct  |
| 8.5.87  | Methyl isobutyl ketone (4-<br>Methyl-2-pentanone)   | 108-10-1    | 75       | ug/L | Apr, Jul, Oct  |
| 8.5.88  | Methyl-tert-butylether                              | 1634-04-4   | 15       | ug/L | Apr, Jul, Oct  |
| 8.5.89  | Naphthalene                                         | 91-20-3     | 17.5     | ug/L | Apr, Jul, Oct  |
| 8.5.90  | n-Butylbenzene                                      | 104-51-8    |          | ug/L | Apr, Jul, Oct  |
| 8.5.91  | n-Propylbenzene                                     | 103-65-1    |          | ug/L | Apr, Jul, Oct  |
| 8.5.92  | p-Isopropyltoluene                                  | 99-87-6     |          | ug/L | Apr, Jul, Oct  |
| 8.5.93  | sec-Butylbenzene                                    | 135-98-8    |          | ug/L | Apr, Jul, Oct  |
| 8.5.94  | Styrene                                             | 100-42-5    | 25       | ug/L | Apr, Jul, Oct  |
| 8.5.95  | tert-Butylbenzene                                   | 98-06-6     |          | ug/L | Apr, Jul, Oct  |
| 8.5.96  | Tetrahydrofuran                                     | 109-99-9    | 150      | ug/L | Apr, Jul, Oct  |
| 8.5.97  | Toluene                                             | 108-88-3    | 17.5     | ug/L | Apr, Jul, Oct  |
| 8.5.98  | Trichlorofluoromethane                              | 75-69-4     | 500      | ug/L | Apr, Jul, Oct  |
| 8.5.99  | Vinyl chloride<br>(chloroethene)                    | 75-01-4     | .05      | ug/L | Apr, Jul, Oct  |
| 8.5.100 | Xylene                                              | 1330-20-7   | 75       | ug/L | Apr, Jul, Oct  |
| 8.5.101 | Perfluoropentanesulfonic<br>acid (PFPeS)            | 2706-91-4   |          | ug/L | Oct            |
| 8.5.102 | Perfluorobutane sulfonate<br>(PFBS)                 | 45187-15-3  | 0.5      | ug/L | Apr, Oct       |
| 8.5.103 | Perfluorobutanoic acid<br>(PFBA)                    | 375-22-4    | 1.75     | ug/L | Apr, Oct       |
| 8.5.104 | Perfluoroheptanoic acid<br>(PFHpA)                  | 375-85-9    |          | ug/L | Apr, Oct       |
| 8.5.105 | Perfluorohexane sulfonate<br>(PFH1S / PFHS / PFHxS) | 108427-53-8 | 0.0025   | ug/L | Apr, Oct       |
| 8.5.106 | Perfluorohexanoic acid<br>(PFHxA)                   | 307-24-4    |          | ug/L | Apr, Oct       |
| 8.5.107 | Perfluorooctane sulfonate                           | 45298-90-6  | 0.000575 | ug/L | Apr, Oct       |

| Type                                             | Parameter                       | CAS        | Limit   | Unit     | Sampling freq.     |
|--------------------------------------------------|---------------------------------|------------|---------|----------|--------------------|
|                                                  | (PFOS)                          |            |         |          |                    |
| 8.5.108                                          | Perfluorooctanoic acid (PFOA)   | 335-67-1   | 0.00875 | ug/L     | Apr, Oct           |
| 8.5.109                                          | Perfluoropentanoic acid (PFPeA) | 2706-90-3  |         | ug/L     | Apr, Oct           |
|                                                  |                                 |            |         |          |                    |
| <b>Methane Gas Probe Monitoring</b>              |                                 |            |         |          |                    |
| 8.6.1                                            | Methane                         | 74-82-8    | 5       | % by vol | Apr, Jul, Oct, Dec |
|                                                  |                                 |            |         |          |                    |
| <b>Pond and Landfill Leak Detection Sampling</b> |                                 |            |         |          |                    |
| 8.7.1                                            | Ammonia                         | 7664-41-7  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.2                                            | Chloride                        | 16887-00-6 |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.3                                            | Cyanide, Total (as CN)          | 57-12-5    |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.4                                            | Fluoride                        | 16984-48-8 |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.5                                            | Phosphorus                      | 7723-14-0  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.6                                            | Sulfate                         | 14808-79-8 |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.7                                            | Arsenic                         | 7440-38-2  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.8                                            | Barium                          | 7440-39-3  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.9                                            | Antimony                        | 7440-36-0  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.10                                           | Beryllium                       | 7440-41-7  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.11                                           | Boron                           | 7440-42-8  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.12                                           | Cadmium                         | 7440-43-9  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.13                                           | Calcium                         | 7440-70-2  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.14                                           | Chromium                        | 7440-47-3  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.15                                           | Cobalt                          | 7440-48-4  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.16                                           | Copper                          | 7440-50-8  |         | ug/L     | Apr, Jul, Oct, Dec |
| 8.7.17                                           | Iron                            | 7439-89-6  |         | ug/L     | Apr, Jul, Oct,     |

| Type   | Parameter                                  | CAS        | Limit | Unit | Sampling freq.        |
|--------|--------------------------------------------|------------|-------|------|-----------------------|
|        |                                            |            |       |      | Dec                   |
| 8.7.18 | Lead                                       | 7439-92-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.19 | Lithium                                    | 7439-93-2  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.20 | Magnesium                                  | 7439-95-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.21 | Manganese                                  | 7439-96-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.22 | Mercury                                    | 7439-97-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.23 | Molybdenum                                 | 7439-98-7  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.24 | Nickel                                     | 7440-02-0  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.25 | Nitrate (as Nitrogen)                      | 14797-55-8 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.26 | Potassium                                  | 7440-09-7  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.27 | Selenium                                   | 7782-49-2  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.28 | Sodium                                     | 7440-23-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.29 | Thallium                                   | 7440-28-0  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.30 | Tin                                        | 7440-31-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.31 | Zinc                                       | 7440-66-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.32 | 1,4-Dioxane (p-Dioxane)                    | 123-91-1   |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.33 | 2,2-Dichloropropane                        | 594-20-7   |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.34 | pH, Field                                  | C006       |       | SU   | Apr, Jul, Oct,<br>Dec |
| 8.7.35 | Acetone                                    | 67-64-1    |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.36 | Allyl chloride (3<br>chloropropene)        | 107-05-1   |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.37 | Benzene                                    | 71-43-2    |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.38 | Dichloromethane<br>(Methylene chloride)    | 75-09-2    |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.39 | Tetrachloroethylene<br>(Perchloroethylene) | 127-18-4   |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.40 | Trichloroethylene (TCE)                    | 79-01-6    |       | ug/L | Apr, Jul, Oct,<br>Dec |

| Type   | Parameter                                   | CAS        | Limit | Unit | Sampling freq.     |
|--------|---------------------------------------------|------------|-------|------|--------------------|
| 8.7.41 | 1,1,1,2-Tetrachloroethane                   | 630-20-6   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.42 | 1,1,1-Trichloroethane                       | 71-55-6    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.43 | 1,1,2,2-Tetrachloroethane                   | 79-34-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.44 | 1,1,2-Trichloroethane                       | 79-00-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.45 | 1,1,2-Trichlorotrifluoroethane              | 76-13-1    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.46 | 1,1-Dichloroethane                          | 75-34-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.47 | 1,1-Dichloroethylene (Vinylidene chloride)  | 75-35-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.48 | 1,1-Dichloropropene                         | 563-58-6   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.49 | 1,2-(trans-) Dichloroethylene               | 156-60-5   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.50 | 1,2,3-Trichlorobenzene                      | 87-61-6    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.51 | 1,2,3-Trichloropropane                      | 96-18-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.52 | 1,2,4-Trichlorobenzene                      | 120-82-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.53 | 1,2,4-Trimethylbenzene                      | 95-63-6    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.54 | 1,2-Dibromo-3-chloropropane                 | 96-12-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.55 | 1,2-Dibromoethane (Ethylene dibromide); EDB | 106-93-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.56 | 1,2-Dichlorobenzene (ortho)                 | 95-50-1    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.57 | 1,2-Dichloroethane                          | 107-06-2   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.58 | 1,2-Dichloroethylene (cis-)                 | 156-59-2   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.59 | 1,2-Dichloropropane                         | 78-87-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.60 | 1,3,5-Trimethylbenzene                      | 108-67-8   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.61 | 1,3-Dichlorobenzene                         | 541-73-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.62 | 1,3-Dichloropropane                         | 142-28-9   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.63 | 1,3-Dichloropropene (cis-)                  | 10061-01-5 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.64 | 1,3-Dichloropropene                         | 10061-02-6 |       | ug/L | Apr, Jul, Oct,     |

| Type   | Parameter                                         | CAS      | Limit | Unit | Sampling freq.        |
|--------|---------------------------------------------------|----------|-------|------|-----------------------|
|        | (trans-)                                          |          |       |      | Dec                   |
| 8.7.65 | 1,4-Dichlorobenzene<br>(para-)                    | 106-46-7 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.66 | 2-Chlorotoluene                                   | 95-49-8  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.67 | 4-Chlorotoluene (para-)                           | 106-43-4 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.68 | Bromobenzene                                      | 108-86-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.69 | Bromochloromethane<br>(Chlorobromomethane)        | 74-97-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.70 | Bromodichloromethane<br>(Dichlorobromomethane)    | 75-27-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.71 | Bromoform                                         | 75-25-2  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.72 | Bromomethane (Methyl<br>bromide)                  | 74-83-9  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.73 | Carbon tetrachloride                              | 56-23-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.74 | Chlorobenzene<br>(Monochlorobenzene)              | 108-90-7 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.75 | Chlorodibromomethane<br>(Dibromochloromethane)    | 124-48-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.76 | Chloroethane                                      | 75-00-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.77 | Chloroform                                        | 67-66-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.78 | Cumene<br>(Isopropylbenzene)                      | 98-82-8  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.79 | Dibromomethane<br>(Methylene bromide)             | 74-95-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.80 | Dichlorodifluoromethane                           | 75-71-8  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.81 | Dichlorofluoromethane                             | 75-43-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.82 | Ethyl ether                                       | 60-29-7  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.83 | Ethylbenzene                                      | 100-41-4 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.84 | Hexachlorobutadiene                               | 87-68-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.85 | Chloromethane                                     | 74-87-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.86 | Methyl ethyl ketone (MEK)                         | 78-93-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.7.87 | Methyl isobutyl ketone (4-<br>Methyl-2-pentanone) | 108-10-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |

| Type                             | Parameter                     | CAS        | Limit | Unit | Sampling freq.     |
|----------------------------------|-------------------------------|------------|-------|------|--------------------|
| 8.7.88                           | Methyl-tert-butylether        | 1634-04-4  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.89                           | Naphthalene                   | 91-20-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.90                           | n-Butylbenzene                | 104-51-8   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.91                           | n-Propylbenzene               | 103-65-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.92                           | p-Isopropyltoluene            | 99-87-6    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.93                           | sec-Butylbenzene              | 135-98-8   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.94                           | Styrene                       | 100-42-5   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.95                           | tert-Butylbenzene             | 98-06-6    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.96                           | Tetrahydrofuran               | 109-99-9   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.97                           | Toluene                       | 108-88-3   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.98                           | Trichlorofluoromethane        | 75-69-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.99                           | Vinyl chloride (chloroethene) | 75-01-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.7.100                          | Xylene                        | 1330-20-7  |       | ug/L | Apr, Jul, Oct, Dec |
|                                  |                               |            |       |      |                    |
| <b>Treated Leachate Sampling</b> |                               |            |       |      |                    |
| 8.8.1                            | Ammonia                       | 7664-41-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.2                            | Chloride                      | 16887-00-6 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.3                            | Cyanide, Total (as CN)        | 57-12-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.4                            | Fluoride                      | 16984-48-8 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.5                            | Phosphorus                    | 7723-14-0  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.6                            | Sulfate                       | 14808-79-8 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.7                            | Arsenic                       | 7440-38-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.8                            | Barium                        | 7440-39-3  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.9                            | Antimony                      | 7440-36-0  |       | ug/L | Apr, Jul, Oct, Dec |

| Type   | Parameter               | CAS        | Limit | Unit | Sampling freq.     |
|--------|-------------------------|------------|-------|------|--------------------|
| 8.8.10 | Beryllium               | 7440-41-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.11 | Boron                   | 7440-42-8  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.12 | Cadmium                 | 7440-43-9  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.13 | Calcium                 | 7440-70-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.14 | Chromium                | 7440-47-3  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.15 | Cobalt                  | 7440-48-4  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.16 | Copper                  | 7440-50-8  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.17 | Iron                    | 7439-89-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.18 | Lead                    | 7439-92-1  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.19 | Lithium                 | 7439-93-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.20 | Magnesium               | 7439-95-4  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.21 | Manganese               | 7439-96-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.22 | Mercury                 | 7439-97-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.23 | Molybdenum              | 7439-98-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.24 | Nickel                  | 7440-02-0  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.25 | Nitrate (as Nitrogen)   | 14797-55-8 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.26 | Potassium               | 7440-09-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.27 | Selenium                | 7782-49-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.28 | Sodium                  | 7440-23-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.29 | Thallium                | 7440-28-0  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.30 | Tin                     | 7440-31-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.31 | Zinc                    | 7440-66-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.32 | 1,4-Dioxane (p-Dioxane) | 123-91-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.33 | 2,2-Dichloropropane     | 594-20-7   |       | ug/L | Apr, Jul, Oct,     |

| Type   | Parameter                                      | CAS      | Limit | Unit | Sampling freq.        |
|--------|------------------------------------------------|----------|-------|------|-----------------------|
|        |                                                |          |       |      | Dec                   |
| 8.8.34 | pH, Field                                      | C006     |       | SU   | Apr, Jul, Oct,<br>Dec |
| 8.8.35 | Acetone                                        | 67-64-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.36 | Allyl chloride (3<br>chloropropene)            | 107-05-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.37 | Benzene                                        | 71-43-2  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.38 | Dichloromethane<br>(Methylene chloride)        | 75-09-2  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.39 | Tetrachloroethylene<br>(Perchloroethylene)     | 127-18-4 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.40 | Trichloroethylene (TCE)                        | 79-01-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.41 | 1,1,1,2-Tetrachloroethane                      | 630-20-6 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.42 | 1,1,1-Trichloroethane                          | 71-55-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.43 | 1,1,2,2-Tetrachloroethane                      | 79-34-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.44 | 1,1,2-Trichloroethane                          | 79-00-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.45 | 1,1,2-<br>Trichlorotrifluoroethane             | 76-13-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.46 | 1,1-Dichloroethane                             | 75-34-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.47 | 1,1-Dichloroethylene<br>(Vinylidene chloride)  | 75-35-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.48 | 1,1-Dichloropropene                            | 563-58-6 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.49 | 1,2-(trans-)<br>Dichloroethylene               | 156-60-5 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.50 | 1,2,3-Trichlorobenzene                         | 87-61-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.51 | 1,2,3-Trichloropropane                         | 96-18-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.52 | 1,2,4-Trichlorobenzene                         | 120-82-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.53 | 1,2,4-Trimethylbenzene                         | 95-63-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.54 | 1,2-Dibromo-3-<br>chloropropane                | 96-12-8  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.55 | 1,2-Dibromoethane<br>(Ethylene dibromide); EDB | 106-93-4 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.8.56 | 1,2-Dichlorobenzene (orth-<br>)                | 95-50-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |

| Type   | Parameter                                   | CAS        | Limit | Unit | Sampling freq.     |
|--------|---------------------------------------------|------------|-------|------|--------------------|
| 8.8.57 | 1,2-Dichloroethane                          | 107-06-2   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.58 | 1,2-Dichloroethylene (cis-)                 | 156-59-2   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.59 | 1,2-Dichloropropane                         | 78-87-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.60 | 1,3,5-Trimethylbenzene                      | 108-67-8   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.61 | 1,3-Dichlorobenzene                         | 541-73-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.62 | 1,3-Dichloropropane                         | 142-28-9   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.63 | 1,3-Dichloropropene (cis-)                  | 10061-01-5 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.64 | 1,3-Dichloropropene (trans-)                | 10061-02-6 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.65 | 1,4-Dichlorobenzene (para-)                 | 106-46-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.66 | 2-Chlorotoluene                             | 95-49-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.67 | 4-Chlorotoluene (para-)                     | 106-43-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.68 | Bromobenzene                                | 108-86-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.69 | Bromochloromethane (Chlorobromomethane)     | 74-97-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.70 | Bromodichloromethane (Dichlorobromomethane) | 75-27-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.71 | Bromoform                                   | 75-25-2    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.72 | Bromomethane (Methyl bromide)               | 74-83-9    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.73 | Carbon tetrachloride                        | 56-23-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.74 | Chlorobenzene (Monochlorobenzene)           | 108-90-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.75 | Chlorodibromomethane (Dibromochloromethane) | 124-48-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.76 | Chloroethane                                | 75-00-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.77 | Chloroform                                  | 67-66-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.78 | Cumene (Isopropylbenzene)                   | 98-82-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.79 | Dibromomethane (Methylene bromide)          | 74-95-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.80 | Dichlorodifluoromethane                     | 75-71-8    |       | ug/L | Apr, Jul, Oct,     |

| Type    | Parameter                                     | CAS       | Limit | Unit | Sampling freq.     |
|---------|-----------------------------------------------|-----------|-------|------|--------------------|
|         |                                               |           |       |      | Dec                |
| 8.8.81  | Dichlorofluoromethane                         | 75-43-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.82  | Ethyl ether                                   | 60-29-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.83  | Ethylbenzene                                  | 100-41-4  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.84  | Hexachlorobutadiene                           | 87-68-3   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.85  | Chloromethane                                 | 74-87-3   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.86  | Methyl ethyl ketone (MEK)                     | 78-93-3   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.87  | Methyl isobutyl ketone (4-Methyl-2-pentanone) | 108-10-1  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.88  | Methyl-tert-butylether                        | 1634-04-4 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.89  | Naphthalene                                   | 91-20-3   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.90  | n-Butylbenzene                                | 104-51-8  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.91  | n-Propylbenzene                               | 103-65-1  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.92  | p-Isopropyltoluene                            | 99-87-6   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.93  | sec-Butylbenzene                              | 135-98-8  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.94  | Styrene                                       | 100-42-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.95  | tert-Butylbenzene                             | 98-06-6   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.96  | Tetrahydrofuran                               | 109-99-9  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.97  | Toluene                                       | 108-88-3  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.98  | Trichlorofluoromethane                        | 75-69-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.99  | Vinyl chloride (chloroethene)                 | 75-01-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.100 | Xylene                                        | 1330-20-7 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.101 | Solids, Total Dissolved (TDS)                 | C010      |       | ug/L | Apr, Jul, Oct, Dec |
| 8.8.102 | Solids, Total Suspended (TSS)                 | C009      |       | NTU  | Apr, Jul, Oct, Dec |
| 8.8.103 | BOD, 05 Day (20 Deg C)                        | C002      |       | ug/L | Apr, Jul, Oct, Dec |

| Type                               | Parameter                           | CAS        | Limit | Unit      | Sampling freq.     |
|------------------------------------|-------------------------------------|------------|-------|-----------|--------------------|
| 8.8.104                            | COD (Chemical Oxygen Demand)        | C004       |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.8.105                            | Eh (Oxidation potential)            | 4          |       | mV        | Apr, Jul, Oct, Dec |
| 8.8.106                            | Specific Conductance                | C-011      |       | umhos/cm  | Apr, Jul, Oct, Dec |
| 8.8.107                            | Static Water Level (Elevation, MSL) | PCA-001    |       | ft msl    | Apr, Jul, Oct, Dec |
| 8.8.108                            | Temperature                         | T-121      |       | degrees C | Apr, Jul, Oct, Dec |
| 8.8.109                            | Color                               | M002       |       | SU        | Apr, Jul, Oct, Dec |
| 8.8.110                            | pH, Field                           | C006       |       | SU        | Apr, Jul, Oct, Dec |
|                                    |                                     |            |       |           |                    |
| <b>Untreated Leachate Sampling</b> |                                     |            |       |           |                    |
| 8.9.1                              | Ammonia                             | 7664-41-7  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.2                              | Chloride                            | 16887-00-6 |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.3                              | Cyanide, Total (as CN)              | 57-12-5    |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.4                              | Fluoride                            | 16984-48-8 |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.5                              | Phosphorus                          | 7723-14-0  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.6                              | Sulfate                             | 14808-79-8 |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.7                              | Arsenic                             | 7440-38-2  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.8                              | Barium                              | 7440-39-3  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.9                              | Antimony                            | 7440-36-0  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.10                             | Beryllium                           | 7440-41-7  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.11                             | Boron                               | 7440-42-8  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.12                             | Cadmium                             | 7440-43-9  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.13                             | Calcium                             | 7440-70-2  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.14                             | Chromium                            | 7440-47-3  |       | ug/L      | Apr, Jul, Oct, Dec |
| 8.9.15                             | Cobalt                              | 7440-48-4  |       | ug/L      | Apr, Jul, Oct, Dec |

| Type   | Parameter                            | CAS        | Limit | Unit | Sampling freq.     |
|--------|--------------------------------------|------------|-------|------|--------------------|
| 8.9.16 | Copper                               | 7440-50-8  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.17 | Iron                                 | 7439-89-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.18 | Lead                                 | 7439-92-1  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.19 | Lithium                              | 7439-93-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.20 | Magnesium                            | 7439-95-4  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.21 | Manganese                            | 7439-96-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.22 | Mercury                              | 7439-97-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.23 | Molybdenum                           | 7439-98-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.24 | Nickel                               | 7440-02-0  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.25 | Nitrate (as Nitrogen)                | 14797-55-8 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.26 | Potassium                            | 7440-09-7  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.27 | Selenium                             | 7782-49-2  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.28 | Sodium                               | 7440-23-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.29 | Thallium                             | 7440-28-0  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.30 | Tin                                  | 7440-31-5  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.31 | Zinc                                 | 7440-66-6  |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.32 | 1,4-Dioxane (p-Dioxane)              | 123-91-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.33 | 2,2-Dichloropropane                  | 594-20-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.34 | pH, Field                            | C006       |       | SU   | Apr, Jul, Oct, Dec |
| 8.9.35 | Acetone                              | 67-64-1    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.36 | Allyl chloride (3 chloropropene)     | 107-05-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.37 | Benzene                              | 71-43-2    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.38 | Dichloromethane (Methylene chloride) | 75-09-2    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.39 | Tetrachloroethylene                  | 127-18-4   |       | ug/L | Apr, Jul, Oct,     |

| Type   | Parameter                                   | CAS      | Limit | Unit | Sampling freq.        |
|--------|---------------------------------------------|----------|-------|------|-----------------------|
|        | (Perchloroethylene)                         |          |       |      | Dec                   |
| 8.9.40 | Trichloroethylene (TCE)                     | 79-01-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.41 | 1,1,1,2-Tetrachloroethane                   | 630-20-6 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.42 | 1,1,1-Trichloroethane                       | 71-55-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.43 | 1,1,2,2-Tetrachloroethane                   | 79-34-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.44 | 1,1,2-Trichloroethane                       | 79-00-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.45 | 1,1,2-Trichlorotrifluoroethane              | 76-13-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.46 | 1,1-Dichloroethane                          | 75-34-3  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.47 | 1,1-Dichloroethylene (Vinylidene chloride)  | 75-35-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.48 | 1,1-Dichloropropene                         | 563-58-6 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.49 | 1,2-(trans-) Dichloroethylene               | 156-60-5 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.50 | 1,2,3-Trichlorobenzene                      | 87-61-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.51 | 1,2,3-Trichloropropane                      | 96-18-4  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.52 | 1,2,4-Trichlorobenzene                      | 120-82-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.53 | 1,2,4-Trimethylbenzene                      | 95-63-6  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.54 | 1,2-Dibromo-3-chloropropane                 | 96-12-8  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.55 | 1,2-Dibromoethane (Ethylene dibromide); EDB | 106-93-4 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.56 | 1,2-Dichlorobenzene (ortho)                 | 95-50-1  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.57 | 1,2-Dichloroethane                          | 107-06-2 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.58 | 1,2-Dichloroethylene (cis-)                 | 156-59-2 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.59 | 1,2-Dichloropropane                         | 78-87-5  |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.60 | 1,3,5-Trimethylbenzene                      | 108-67-8 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.61 | 1,3-Dichlorobenzene                         | 541-73-1 |       | ug/L | Apr, Jul, Oct,<br>Dec |
| 8.9.62 | 1,3-Dichloropropane                         | 142-28-9 |       | ug/L | Apr, Jul, Oct,<br>Dec |

| Type   | Parameter                                   | CAS        | Limit | Unit | Sampling freq.     |
|--------|---------------------------------------------|------------|-------|------|--------------------|
| 8.9.63 | 1,3-Dichloropropene (cis-)                  | 10061-01-5 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.64 | 1,3-Dichloropropene (trans-)                | 10061-02-6 |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.65 | 1,4-Dichlorobenzene (para-)                 | 106-46-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.66 | 2-Chlorotoluene                             | 95-49-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.67 | 4-Chlorotoluene (para-)                     | 106-43-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.68 | Bromobenzene                                | 108-86-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.69 | Bromochloromethane (Chlorobromomethane)     | 74-97-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.70 | Bromodichloromethane (Dichlorobromomethane) | 75-27-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.71 | Bromoform                                   | 75-25-2    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.72 | Bromomethane (Methyl bromide)               | 74-83-9    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.73 | Carbon tetrachloride                        | 56-23-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.74 | Chlorobenzene (Monochlorobenzene)           | 108-90-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.75 | Chlorodibromomethane (Dibromochloromethane) | 124-48-1   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.76 | Chloroethane                                | 75-00-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.77 | Chloroform                                  | 67-66-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.78 | Cumene (Isopropylbenzene)                   | 98-82-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.79 | Dibromomethane (Methylene bromide)          | 74-95-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.80 | Dichlorodifluoromethane                     | 75-71-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.81 | Dichlorofluoromethane                       | 75-43-4    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.82 | Ethyl ether                                 | 60-29-7    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.83 | Ethylbenzene                                | 100-41-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.84 | Hexachlorobutadiene                         | 87-68-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.85 | Chloromethane                               | 74-87-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.86 | Methyl ethyl ketone (MEK)                   | 78-93-3    |       | ug/L | Apr, Jul, Oct,     |

| Type    | Parameter                                        | CAS         | Limit | Unit | Sampling freq.     |
|---------|--------------------------------------------------|-------------|-------|------|--------------------|
|         |                                                  |             |       |      | Dec                |
| 8.9.87  | Methyl isobutyl ketone (4-Methyl-2-pentanone)    | 108-10-1    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.88  | Methyl-tert-butylether                           | 1634-04-4   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.89  | Naphthalene                                      | 91-20-3     |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.90  | n-Butylbenzene                                   | 104-51-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.91  | n-Propylbenzene                                  | 103-65-1    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.92  | p-Isopropyltoluene                               | 99-87-6     |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.93  | sec-Butylbenzene                                 | 135-98-8    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.94  | Styrene                                          | 100-42-5    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.95  | tert-Butylbenzene                                | 98-06-6     |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.96  | Tetrahydrofuran                                  | 109-99-9    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.97  | Toluene                                          | 108-88-3    |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.98  | Trichlorofluoromethane                           | 75-69-4     |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.99  | Vinyl chloride (chloroethene)                    | 75-01-4     |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.100 | Xylene                                           | 1330-20-7   |       | ug/L | Apr, Jul, Oct, Dec |
| 8.9.101 | Perfluoropentanesulfonic acid (PFPeS)            | 2706-91-4   |       | ug/L | Apr                |
| 8.9.102 | Perfluorobutane sulfonate (PFBS)                 | 45187-15-3  |       | ug/L | Apr                |
| 8.9.103 | Perfluorobutanoic acid (PFBA)                    | 375-22-4    |       | ug/L | Apr                |
| 8.9.104 | Perfluoroheptanoic acid (PFHpA)                  | 375-85-9    |       | ug/L | Apr                |
| 8.9.105 | Perfluorohexane sulfonate (PFH1S / PFHS / PFHxS) | 108427-53-8 |       | ug/L | Apr                |
| 8.9.106 | Perfluorohexanoic acid (PFHxA)                   | 307-24-4    |       | ug/L | Apr                |
| 8.9.107 | Perfluorooctane sulfonate (PFOS)                 | 45298-90-6  |       | ug/L | Apr                |
| 8.9.108 | Perfluorooctanoic acid (PFOA)                    | 335-67-1    |       | ug/L | Apr                |
| 8.9.109 | Perfluoropentanoic acid (PFPeA)                  | 2706-90-3   |       | ug/L | Apr                |

| Type | Parameter | CAS | Limit | Unit | Sampling freq. |
|------|-----------|-----|-------|------|----------------|
|      |           |     |       |      |                |

9. Certificate of Need (CON)

| Waste activity    | ID     | CON Issued | CON Issued (Units) | CON Remaining | CON Remaining (Units) | CON Remaining as of |
|-------------------|--------|------------|--------------------|---------------|-----------------------|---------------------|
| MSW Land Disposal | SA 002 | 492,835    | cubic yards        | 376,172       | cubic yards           | DEC 31, 2024        |