State Disposal System
MN0071544

Permittee: Prairie River Minerals LLC
Facility name: Prairie River Minerals LLC
City or Township: Coleraine  County: Itasca
Issuance date: TBD  Expiration date: TBD

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to operate a disposal system at the facility named above, in accordance with the requirements of this permit.

The goal of this permit is to protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

This permit expires at midnight on the expiration date identified above.

Signature: ( )
This document has been electronically signed.

Richard Clark
Supervisor
Industrial Division

Submit eDMRs
Submit via the MPCA e-Services at
https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true

Submit WQ reports to:
Electronically: wq.submittals.mpca@state.mn.us
Include Water quality submittals form:
https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx
Or, by mail:
Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Whole Effluent Testing (WET) and Pretreatment Annual Reports must be mailed to the WQ Submittals Center

Questions on this permit?
For eDMR and other permit reporting issues, contact:
TBD

For specific permit requirements, please refer to:
TBD

Wastewater Permit Program general questions, contact:
MPCA, 651-282-6143 or 1-800-657-3938
## Table of Contents

1. Permitted facility description ................................................................. 3
2. Location map of permitted facility ....................................................... 4
3. Demonstration project layout ............................................................... 5
4. Flow diagram ....................................................................................... 6
5. Summary of stations and station locations ........................................... 7
6. Permit requirements ........................................................................... 8
7. Submittal action summary ................................................................. 21
8. Limits and monitoring ....................................................................... 22
1. Permitted facility description

The Prairie River Minerals LLC facility (facility) is located at 29013 County Highway 61, Grand Rapids, Minnesota 55744, Itasca County.

The application indicates Prairie River Minerals, LLC is proposing to collect and process a bulk sample for a demonstration project near Coleraine, Minnesota. The proposed demonstration project will produce high grade iron lump and sinter feedstock products using an ultra-high dense medium separation (UHDMSS) technology. The finished products will be shipped off-site to evaluate the potential for use in steel making operations. The proposed demonstration project is expected to last for a period of approximately 3 to 9 months.

The company will obtain a bulk sample of up to approximately 500,000 metric tons from the Jessie Mine, Jessie #2 Mine and Buckeye Mine natural ore legacy stockpiles. These lean ore stockpiles contain material with an approximate average iron content of 32% and particle sizes ranging from fines to approximately 36 inches that was discarded unprocessed from historic operations. Primary crushing and sizing will be conducted using various methods at each stockpile. Crushed material one inch or smaller will be transported to a surge pile adjacent to the demonstration plant for further processing.

The UHDMS beneficiation process at the demonstration plant is a wet process using recirculated water from the thickener and the process water tank. The combined lump and sinter product goes to a screen where final separation between the lump ore and sinter fines takes place. The lump ore and sinter fines are stockpiled separately and hauled to PRM’s proposed rail loadout facility for shipping. Total production of lump ore and sinter fines for the demonstration project is estimated to be 150,000 metric tons.

Process water used in the beneficiation processes and for plant cleaning will be appropriated from the West Hill mine pit pit per a DNR water appropriation permit. Additives in the beneficiation process include ferro-silica, lime and a flocculant. All process water used in the plant will be collected and recirculated, the only water to leave the plant will be moisture contained in the final products and rejects/waste material, and evaporation losses from the process. No process wastewater will be discharged to surface waters as a part of the demonstration project.

A bermed staging area immediately adjacent to the plant will be used to temporarily stage dewatered rejects/waste material from the plant prior to relocation to the waste management area (WMA) where the rejects/waste material will be disposed of as a waste stockpile within the 5-acre WMA site. Berms surrounding both the waste staging area and the WMA will be constructed to prevent run-on into, and run-off from these areas. Any potential draindown from the stockpiled rejects/waste materials, as well as precipitation contacting the waste materials, will be collected within the berms and routed to infiltration basins located within the waste staging area and/or the WMA.

This permit authorizes the management of process wastewater from the proposed 500,000 metric ton demonstration project only. A modification of this permit will be required for any processing of material beyond the initial 500,000 metric ton demonstration project. This permit does not authorize the discharge of process wastewater or industrial stormwater from the facility. The discharge and management of industrial stormwater for the demonstration project will be regulated under the NPDES/SDS Industrial Stormwater General Permit (MNR050000).
2. Location map of permitted facility
3. Demonstration Project Layout
4. Flow diagram

WATER SOURCES

West Hill Mine Pit
Proposed Limit: 78 MGY

Jessie #2 Mine Pit
Permitted Maximum: 8 MGY

WATER USE AND MANAGEMENT

Process Water Storage

Plant Processes
Crushing, Grinding, Sorting

Water Reclalm Processes (Thickener)

Infiltration System
(No Surface Discharge)

Moisture in Products

Evaporation Losses

Moisture in Rejects/Waste
(100 gpm Average)

(100-150 gpm (125 gpm Average)

Dust control

(25 gpm Average)

2200 gpm Recirculation

Notes:
- Moisture content in products is estimated at 5% and rejects/waste moisture content is estimated at 11%.
5. Summary of stations and station locations

<table>
<thead>
<tr>
<th>Station</th>
<th>Type of station</th>
<th>Local name</th>
<th>PLS location</th>
</tr>
</thead>
</table>
6. Permit requirements

<table>
<thead>
<tr>
<th>Station</th>
<th>Internal Waste Stream</th>
<th>Facility Specific Limit and Monitoring Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.1.1</td>
<td>The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>5.1.2</td>
<td>Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>5.1.3</td>
<td>Samples for Station WS001 shall be taken at the infiltration basin within the waste management area. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>5.1.4</td>
<td>The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report &quot;No Flow&quot; or &quot;No Discharge&quot; on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>WS002</td>
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<tr>
<td>5.2.1</td>
<td>The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>5.2.2</td>
<td>Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>5.2.3</td>
<td>Samples for Station WS002 shall be taken at the infiltration basin within the waste staging area. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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</tr>
<tr>
<td>5.2.4</td>
<td>The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report &quot;No Flow&quot; or &quot;No Discharge&quot; on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]</td>
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<tr>
<td>MN0071544</td>
<td>Wastewater Treatment</td>
<td>Waste Stream Station General Requirements</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Analysis Requirements. [Minn. R. 7001]</td>
<td></td>
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<tr>
<td>5.3.2</td>
<td>Specific conductance and pH analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7053]</td>
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<tr>
<td>5.3.3</td>
<td>Samples shall be collected at WS001 and WS002 twice monthly and when possible, shall be timed to be collected within 48 hours of a 24-hour precipitation event exceeding 0.5 inches. [Minn. R. 7001]</td>
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<tr>
<td>5.3.4</td>
<td>Representative Samples. [Minn. R. 7001]</td>
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<td>5.3.5</td>
<td>Grab samples shall be collected at a point representative of total influent flow to the infiltration basins. [Minn. R. 7001]</td>
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<tr>
<td><strong>Special Requirements</strong></td>
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<td>5.4.6</td>
<td>Waste Staging Area and Waste Management Area. [Minn. R. 7001]</td>
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<td>5.4.7</td>
<td>This permit authorizes the management of process wastewater from the proposed initial 500,000 metric ton demonstration project only. A modification of this permit will be required for any processing of material beyond the initial 500,000 metric ton demonstration project. This permit does not authorize the management of wastewater or stormwater associated with a full-scale project. [Minn. R. 7001]</td>
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<tr>
<td>Section</td>
<td>Description</td>
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<td>5.4.8</td>
<td>This permit does not authorize the discharge of wastewater or stormwater to surface waters and such discharge is prohibited. [Minn. R. 7001]</td>
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<tr>
<td>5.4.9</td>
<td>The waste staging area and waste management area shall be constructed and managed to prevent surface water run-on and to prevent the runoff or discharge of process wastewater or stormwater to surface waters. All process wastewater generated at the waste staging area and waste management area, including precipitation falling within these areas must be collected and managed within the waste staging area and waste management area. [Minn. R. 7001]</td>
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<tr>
<td>5.4.10</td>
<td>All reject or waste material generated during the demonstration project must be deposited in the designated waste management area. This permit does not authorize the operation of additional waste management areas or the disposal of process wastewater at other areas of the demonstration project such as the product stockpile area, surge stockpile area, and product loadout area. [Minn. R. 7001]</td>
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<tr>
<td>5.4.11</td>
<td>This permit does not authorize the discharge of industrial stormwater. The Permittee shall obtain coverage under the Industrial Stormwater General Permit (MNR050000) for discharges of industrial stormwater. [Minn. R. 7001]</td>
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<tr>
<td>5.4.12</td>
<td>Demonstration Project Report. [Minn. R. 7001]</td>
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</table>
| 5.4.13  | The Permittee shall submit a semi-annual Demonstration Project Summary Report. The report must include the following information:  
A. Total amount processed at the demonstration plant during the preceding 6-months;  
B. Total volume of waste material and/or rejects transferred to the waste management area during the preceding 6-months; and  
C. Verification there has been no discharge or overflow of wastewater or stormwater from the waste management area.  
Semi-annual reports shall be submitted until such time that the demonstration project is concluded or when a total of 500,000 metric tons of material has been processed, whichever is sooner.  
The first semi-annual summary report is due by February 1, 2021 to cover the period of operation through December 31, 2020. Submit a report: Due semiannually. [Minn. R. 7001] |
| 5.4.14  | The Permittee shall notify the MPCA in writing within 30 days of conclusion of the demonstration project or upon completing the processing of 500,000 metric tons of material. [Minn. R. 7001] |
| 5.4.15  | Permit Modification. [Minn. R. 7001] |
| 5.4.16  | The Permittee shall apply for a major permit modification for the processing of any additional stockpile/feed/source material beyond the 500,000 tons described in the July 31, 2020 permit application. The application for a major permit modification must include the following:  
A. Updated project description;  
B. Updated maps and figures showing locations of source materials, haul routes, stockpile areas and rejects/waste material disposal areas;  
C. Proposed management plans for reject/waste materials, process wastewater and industrial stormwater;  
D. Projected quality and quantity of wastewater based on waste characterization studies;  
E. Updated water balance and flow diagrams; and  
F. Proposed groundwater monitoring plan.  
The application for a major permit modification must be received by the MPCA 150 days prior to the date of operation of any future activity beyond the initial 500,000 metric ton demonstration project. [Minn. R. 7001] |
### 5.4.17

The proposed groundwater monitoring plan identified above shall include, at a minimum, the following information:

- A. Depth to groundwater;
- B. Direction of groundwater flow;
- C. Nearest groundwater receptor (lake, stream, etc);
- D. Soil/surficial material stratigraphy from soil borings or well logs;
- E. Infiltration rates and capacities of soil/surficial materials;
- F. Proposed groundwater monitoring well locations; and
- G. Proposed monitoring well installation and construction details (casing types, screen intervals, etc.). [Minn. R. 7001]

### 5.4.19 **Definitions.** [Minn. R. 7001]

### 5.4.20 **Process Wastewater:** Any water, including precipitation, used in the processing circuit or that has contacted rejects/waste materials within the waste staging area, waste management area or is otherwise collected with in these areas.

### 5.4.21 **Lump Ore:** Processed material from legacy stockpiles with a higher iron content and coarse feedstock. Lump ore ranges in size from 3/8-inch to 1-inch. Lump Ore is typically fed directly into a blast furnace and does not need any intermediate steps.

### 5.4.22 **Sinter Ore:** Processed material from legacy stockpiles with a lower iron content than Lump Ore (1-3% lower). Sinter Ore ranges in size from 0.25-inch to #20 mesh. Sinter ore fines are typically mixed with waste products from a steel mill and turned into a lumpy substance suitable as feed into a blast furnace.

### 5.4.23 **Waste Management Area:** Area where rejects and/or waste material from the demonstration project is permanently disposed.

### 5.4.24 **Waste Staging Area:** Area where rejects and/or waste material from the plant is temporarily stored and/or staged until final disposal at the waste management area. [Minn. R. 7001]

### 5.4.25 **Waste Staging Area and Waste Management Area - Berms.** [Minn. R. 7001]

- Berms surrounding the waste staging area and waste management area must be constructed to prevent run-on into and runoff from these areas. The berms must be designed, constructed and managed so as to fully contain the volume of water generated within these areas from a 10-year, 24-hour storm event. This permit prohibits any discharge of wastewater or stormwater from the waste staging area and waste management area. [Minn. R. 7001]

- Berms at the waste staging area and waste management area shall be constructed to prevent seepage through the berm. [Minn. R. 7001]

- The Permittee shall submit as-built drawings of the completed berms and infiltration basins, supplemented with photographs and soil borings as appropriate, within 30-days of completion of berm construction. [Minn. R. 7001]

- The Permittee shall notify the MPCA as soon as possible after taking action to end the discharge, if there is any discharge of wastewater, any breach or failure of a berm, or any other issues that cause the release of wastewater or reject/waste material from the waste staging area and/or the waste management area. [Minn. R. 7001]

- Infiltration Basins. [Minn. R. 7001]

- Operation and Maintenance of Infiltration Basins. [Minn. R. 7001]

- Locational Standards. All of the following locational standards apply to any wastewater infiltration basins the Facility:
  - A. The infiltration basins shall be located entirely above the high water table. A minimum
separation of 4 feet (1.2 m), as documented by soil borings, between the bottom of the infiltration basin and the maximum groundwater elevation must be maintained.
B. The infiltration basins may not be located within a wetland.
C. The infiltration basins may not be located in an area which is unsuitable because of topography, geology, hydrology or soils. [Minn. R. 7001]

5.4.30 Operating Depth. At least 3 feet of freeboard on all infiltration basins and wastewater solids containment berms at the Facility must be maintained. [Minn. R. 7001]

5.4.31 The Permittee shall maintain daily precipitation records. [Minn. R. 7001]

5.4.32 The Permittee shall inspect the berms and infiltration basins weekly. The Permittee shall note if there is any seepage from these areas and if a minimum of 3-feet of freeboard is being maintained. Records of the weekly inspections shall be maintained on site and made available upon request. [Minn. R. 7001]

Industrial Process Wastewater

5.5.49 Prohibited Discharges. [Minn. R. 7001]

5.5.50 This permit does not authorize the discharge of process wastewater, sewage, wash water, scrubber water, spills, oil, hazardous substances, or equipment/vehicle cleaning and maintenance wastewaters to ditches, wetlands or other surface waters of the state. [Minn. R. 7001.1090, subp. 1(A)]

5.5.51 The Permittee shall prevent the routing of pollutants from the facility to a municipal wastewater treatment system in any manner unless authorized by the pretreatment standards of the MPCA and the municipal authority. [Minn. R. 7001.1090, subp. 1(A)]

5.5.52 The Permittee shall not transport pollutants to a municipal wastewater treatment system that will interfere with the operation of the treatment system or cause pass-through violations of effluent limits or water quality standards. [Minn. R. 7049.140, subp. 2]

5.5.53 Toxic Substance Reporting. [Minn. R. 7001]

5.5.54 The Permittee shall notify the MPCA immediately of any knowledge or reason to believe that an activity has occurred that would result in the discharge of a toxic pollutant listed in Minnesota Rules, pt. 7001.1060, subp. 4 to 10 or listed below that is not limited in the permit, if the discharge of this toxic pollutant has exceeded or is expected to exceed the following levels:
A. For acrolein and acrylonitrile, 200 ug/L;
B. for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol, 500 ug/L;
C. for antimony, 1 mg/L;
D. for any other toxic pollutant listed in Minnesota rules, pt. 7001.1060, subp. 4 to 10,000 ug/L; or,
E. five times the maximum concentration value identified and reported for that pollutant in the permit application. [Minn. R. 7001.1090, subp. 2]

5.5.55 The Permittee shall notify the MPCA immediately if the Permittee has begun or expects to begin to use or manufacture as an intermediate or final by-product a toxic pollutant that was not reported in the permit application under Minnesota Rules, pt. 7001.1050, subp. 2.J. [Minn. R. 7001.1090, subp. 2(J)]

5.5.56 Polychlorinated Biphenyls (PCBs). [Minn. R. 7001]

5.5.57 PCBs, including but not limited to those used in electrical transformers and capacitors, shall not be discharged or released to the environment. [Minn. R. 7001.0150, subp. 2]

5.5.58 In addition to the requirements in the Permit Modifications section of this permit, the Permittee shall submit to the MPCA detailed plans and specifications for the proposed methods of achieving discharge limits for turbidity and total suspended solids, based in part upon representative water quality data for untreated wastewater and a detailed map and diagram description of the proposed design for the flow control structures, and route of the discharge to receiving waters. [Minn. R. 7001.170]

5.5.59 Application for Permit Reissuance. [Minn. R. 7001]

5.5.60 The permit application shall include analytical data as part of the application for reissuance of
this permit. These analyses shall be done on individual samples taken during the twelve-month period before the reissuance application is submitted. [Minn. R. 7001.50]

5.5.61 The Permittee shall include, as part of the application for reissuance of this permit:

A. Updated project description;
B. Updated maps and figures showing locations of source materials, haul routes, stockpile areas and rejects/waste material disposal areas;
C. Proposed management plans for reject/waste materials, process wastewater and industrial stormwater;
D. Projected quality and quantity of wastewater based on waste characterization studies; and
E. Updated water balance and flow diagrams. [Minn. R. 7001.50]

Total Facility Requirements (SDS)

5.6.68 **No Discharge.** There shall be no point source discharge to surface water from the permitted activity. [Minn. R. 7001]

5.6.69 **Definitions.** Refer to the Permit User’s Manual found on the MPCA’s website (https://www.pca.state.mn.us) for standard definitions. [Minn. R. 7001]

5.6.70 **Incorporation by Reference.** This permit incorporates the following applicable federal and state laws applicable to the Permittee and enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. chs. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. chs. 115 and 116. [Minn. R. 7001]

5.6.71 **Permittee Responsibility.** The Permittee shall perform the actions or conduct the activity authorized by this permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the MPCA. [Minn. R. 7001.0150, subp. 3(E)]

5.6.72 **Toxic Discharges Prohibited.** Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to 40 CFR pts. 400 to 460 and Minn. R. chs. 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]

5.6.73 **Nuisance Conditions Prohibited.** The Permittee’s discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, excessive suspended solids, material discoloration, obnoxious odors, gas ebullition, deleterious sludge deposits, undesirable slimes or fungus growths, aquatic habitat degradation, excessive growths of aquatic plants, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]

5.6.74 **Property Rights.** This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]

5.6.75 **Liability Exemption.** In issuing this permit, the State and the 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 this permit. To the extent the State and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]

5.6.76 The MPCA’s issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what Minnesota statutes authorize. [Minn. R. 7001.0150, subp. 3(D)]

5.6.77 **Liabilities.** The MPCA’s issuance of this permit does not release the Permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]

5.6.78 The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]

5.6.79 **Severability.** The provisions of this permit are severable and, if any provisions of this permit or
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.80</td>
<td><strong>Compliance with Other Rules and Statutes.</strong> The Permittee shall comply with all applicable air quality, solid waste, and hazardous waste statutes and rules in the operation and maintenance of the facility. [Minn. R. 7001]</td>
</tr>
<tr>
<td>5.6.81</td>
<td><strong>Inspection and Entry.</strong> When authorized by Minn. Stat. ch. 115.04, 115B.17, subd. 4, and 116.091, and upon presentation of proper credentials, the Permittee shall allow the MPCA, or an authorized employee or agent of the MPCA, 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)]</td>
</tr>
<tr>
<td>5.6.82</td>
<td><strong>Control Users.</strong> The Permittee shall regulate the users of its facility to prevent the introduction of pollutants or materials that may result in the inhibition or disruption of the conveyance system, treatment facility or processes, or disposal system that would contribute to the violation of the conditions of this permit or any federal, state, or local law or regulation. [Minn. R. 7001.0150, subp. 3(F)]</td>
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<tr>
<td>5.6.83</td>
<td><strong>Sampling.</strong> [Minn. R. 7001]</td>
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<tr>
<td>5.6.84</td>
<td><strong>Representative Sampling.</strong> The Permittee shall conduct samples and measurements required by this permit as specified in this permit and shall be representative of the discharge or monitored activity. [Minn. R. 7001.0150, subp. 2(B)]</td>
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<tr>
<td>5.6.85</td>
<td><strong>Additional Sampling.</strong> If the Permittee monitors more frequently than required, they shall report the results and the frequency of monitoring on their eDMR for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]</td>
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<tr>
<td>5.6.86</td>
<td><strong>Certified/Accredited Laboratory.</strong> A laboratory accredited by the Minnesota Department of Health [Minn. R. 4740.2010 through Minn. R. 4740.2120] and/or certified by the MPCA [Minn. R. 7001.4310 through Minn. R. 7001.4390] shall conduct analyses required by this permit, unless approved in writing by the MPCA. A certified/accredited laboratory does not need to complete analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine). Those analyses shall comply with 40 CFR pt. 136. Dissolved oxygen, pH, and total residual oxidants must be performed on-site. Follow the manufacturer's specifications for equipment maintenance and use. [Minn. R. 4740.2010-4740.2120, Minn. R. 7001.4310-7001.4390]</td>
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<tr>
<td>5.6.87</td>
<td><strong>Sample Preservation and Procedure.</strong> Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR pt. 136 and Minn. R. 7041.3200. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7041.3200]</td>
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<tr>
<td>5.6.88</td>
<td><strong>Equipment Calibration.</strong> The Permittee shall check and/or calibrate flow meters, pumps, flumes, lift stations, or other flow monitoring equipment used for purposes of determining compliance (within plus or minus ten percent of the true flow values) with permit requirements at least twice annually. [Minn. R. 7001.0150, subp. 2(B &amp; C)]</td>
</tr>
</tbody>
</table>
| 5.6.89 | **Maintain Records.** The Permittee shall keep the records required by this permit for at least three years, including any calculations, original recordings from automatic monitoring instruments, and laboratory sheets. The Permittee shall extend these record retention periods upon request of the MPCA. The Permittee shall maintain records for each sample and measurement. The records shall include the following information:  
A. The exact place, date, and time of the sample or measurement;  
B. The date of analysis;  
C. The name of the person who performed the sample collection, measurement, analysis, or calculation;  
D. The analytical techniques, procedures, and methods used; and  
E. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)] |
5.6.90 Completing Reports. The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA. The Permittee shall record the information in the specified areas on those forms and in the units specified.

Required forms may include a Sample Values Form. If required, the Permittee shall record individual values for each sample and measurement on the Sample Values Form provided by the MPCA. The Permittee shall submit Sample Values Form with the appropriate eDMRs. The Permittee may design and use their own Sample Values Form; however, the Permittee shall not use their form until the MPCA reviews and approves the form.

Note: The Permittee shall also record required summary information on their eDMR. Permittee submitted summary information contained only on the Sample Values Form does not comply with reporting requirements. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]

5.6.91 Submitting Reports. The Permittee shall submit eDMRs, Sample Values Forms, and other supplemental attachment forms via MPCA e-Services after the MPCA approves their authorization request.

The Permittee shall electronically submit eDMRs, Sample Values Forms, and other supplemental attachment forms by the 21st day of the month following the sampling period or otherwise as specified in this permit. The Permittee shall complete eDMR submittal on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. The Permittee shall submit an eDMR for each required station even if no discharge occurred during the reporting period.

The Permittee shall submit other reports required by this permit electronically or by mail. The Permittee shall submit reports by the date specified in this permit. For electronic submittals, the Permittee shall submit on or before 11:59 PM on the date specified in this permit. For mailed submittals, the Permittee shall ensure that submittals via U.S. Postal Service or other hand delivery method contain postmarks by the date specified in this permit. Whole Effluent Testing (WET) and Pretreatment Annual Reports must be mailed to the WQ Submittals Center.

Electronically:
wq.submittals.mPCA@state.mn.us
Include Water quality submittals form: www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx

Or by mail:
Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4191. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]

5.6.92 Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or eDMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or eDMR. The amended report or eDMR shall contain the missing or corrected data along with a comment on the eDMR explaining the circumstances of the incomplete or incorrect report. If it is impossible to amend the report or eDMR electronically, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, subp. 3(G)]

5.6.93 Required Signatures. The Permittee or the duly authorized representative of the Permittee shall sign all eDMRs, forms, reports, and other documents submitted to the MPCA per Minn. R. 7001.0150, subp. 2(D). The person or persons who sign the eDMRs, forms, reports, or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. chs. 7001.0070 and 7001.0540, including the penalties for submitting false information. A registered professional engineer shall certify technical documents, such as
5.6.94 **Reporting Limit (RL).** The Permittee shall report monitoring results below the RL of a particular instrument as "$<" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the Permittee shall report the concentration as "$< 0.1 mg/L." The Permittee shall not use "non-detected," "undetected," "below detection limit," or "zero" when reporting results. The MPCA considers these terms as permit reporting violations.

Where sample values are less than the RL and the permit requires reporting of an average, the Permittee shall calculate the average as follows:
- A. If some values are less than (<) the RL, substitute zero for all non-detectable values to use in the average calculation;
- B. If all values are less than (<) the RL, calculate the average and report as < the RL average concentration; and
- C. To calculate a mass loading with a less than (<) the RL concentration, use the RL value in the calculation and then add the "$<" to the product of the concentration and the volume.

[Minn. R. 7001.0150, subp. 2(B)]

5.6.95 **Records.** The Permittee shall, when requested by the MPCA, 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)]

5.6.96 **Confidential Information.** Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit are available for public inspection. The MPCA does not consider effluent data confidential. To request the MPCA maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]

5.6.97 **Noncompliance and Enforcement.** [Minn. R. 7001]

5.6.98 **Subject to Enforcement Action and Penalties.** Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, subp. 1(B)]

5.6.99 **Criminal Activity.** The Permittee shall not knowingly make a false statement, representation, or certification in a record or other document submitted to the MPCA. A person who falsifies a report or document submitted to the MPCA, or tampers with, or knowingly renders inaccurate a monitoring device or method that requires maintenance under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, subp. 3(G), Minn. R. 7001.1090, subp. 1(G & H), Minn. Stat. ch. 609.671, subd. 1]

5.6.100 **Noncompliance Defense.** It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 122.41(c)]

5.6.101 **Effluent Violations.** If sampling by the Permittee indicates a violation of any discharge limitation specified in this permit, the Permittee shall immediately make every effort to verify the violation by collecting additional samples, if appropriate, investigate the cause of the violation, and take action to prevent future violations.

If the Permittee discovers that noncompliance with a condition of the permit occurred and that the noncompliance 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 and submit a written description of the noncompliance within five days of the discovery.

If the Permittee discovers other noncompliance that does not explicitly endanger human health,
public drinking water supplies, or the environment, the Permittee shall report the description of noncompliance within 30 days of the discovery. If no eDMR is required within 30 days, the Permittee shall submit a written report including the description of noncompliance within 30 days of the discovery of the noncompliance. This description shall include the following information:
A. A description of the event including volume, duration, monitoring results, and receiving waters;
B. The cause of the event;
C. The steps taken to reduce, eliminate, and prevent reoccurrence of the event;
D. The exact dates and times of the event; and
E. Steps taken to reduce any adverse impact resulting from the event.
[Minn. R. 7001.0150, subp. 3(K)]

5.6.102 Upset Defense. In the event of temporary noncompliance with applicable effluent limitation(s) resulting from an upset at the Permittee's facility due to factors beyond the control of the Permittee, the Permittee has an affirmative defense to an enforcement action brought by the MPCA as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:
A. The specific cause of the upset;
B. That the upset was unintentional;
C. That the upset resulted from factors beyond the reasonable control of the Permittee and did not result from operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or increases in production which are beyond the design capability of the treatment facilities;
D. That at the time of the upset the facility was being properly operated;
E. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1(l); and
F. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]

5.6.103 Release. [Minn. R. 7001]

5.6.104 Unauthorized Releases of Wastewater Prohibited. This permit prohibits overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, except for discharges from outfalls specifically authorized by this permit. The MPCA will consider the Permittee's compliance with permit requirements, frequency of release, quantity, type, location, and other relevant factors when determining appropriate action. [40 CFR 122.41, Minn. Stat. ch. 115.061]

5.6.105 Discovery of a Release. Upon discovery of a release, the Permittee shall:
A. Take all reasonable steps to immediately end the release;
B. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. The Permittee may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area); and
C. Recover as rapidly and as thoroughly as possible all substances and materials released or immediately take other action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If the Permittee cannot immediately or completely recover the released materials or substances, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090]

5.6.106 Sampling of a Release. Upon discovery of a release, the Permittee shall:
A. Collect representative samples of the release. The Permittee shall sample the release for permitted effluent parameters and other parameters of concern immediately following discovery of the release. The Permittee may contact the MPCA during business hours to discuss the sampling parameters and protocol. In addition, the Permittee shall collect fecal coliform bacteria
samples where the Permittee determines that the release contains or may contain sewage. If the Permittee cannot immediately stop the release, the Permittee shall consult with the MPCA regarding additional sampling requirements. The Permittee shall collect samples at least, but not limited to, two times per week for as long as the release continues; and
B. Submit the sampling results on the Release Report located on the MPCA’s website at https://www.pca.state.mn.us/water/discharge-monitoring-reports.

The Permittee shall submit the Release Report to the MPCA with the next eDMR or within 30 days, whichever is sooner. [Minn. R. 7001.1090]

5.6.107 **Bypass.** [Minn. R. 7001]

5.6.108 **Anticipated Bypass.** The Permittee may allow any bypass to occur that does not cause effluent limitation exceedances, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The Permittee shall submit prior notice to the MPCA at least ten days before the date of the bypass, if possible. The notice of the need for an anticipated bypass shall include the following information:
A. The proposed date and estimated duration of the bypass;
B. The alternatives to bypassing; and
C. A proposal for effluent sampling during the bypass. Any bypass wastewater shall enter waters of the state from outfalls specifically authorized by this permit. Therefore, the Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent.
[40 CFR 122.41(m)(2 & 3), Minn. R. 7001.1090, subp. 1(J)]

5.6.109 This permit prohibits all other bypasses. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. 7001.1090 subp. 1(K) and 40 CFR 122.41(m)(4)(i) are met.

In the event of an unanticipated bypass, the Permittee shall:
A. Take all reasonable steps to immediately end the bypass;
B. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon commencement of the bypass. The Permittee may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area);
C. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies for implementation of abatement, clean up, or remediation activities; and
D. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. The Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. The Permittee shall also follow the reporting requirements for effluent violations as specified in this permit.
[40 CFR 122.41(m)(4), Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]

5.6.110 **Operation and Maintenance.** [Minn. R. 7001]

5.6.111 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)]

5.6.112 In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail discharges to the extent necessary to maintain
compliance with the terms and conditions of this permit. The Permittee shall continue this control or curtailment until they restore facility treatment processes or until the Permittee provides an alternative method of treatment. [Minn. R. 7001.1090, subp. 1(C)]

5.6.113 Solids Management. The Permittee shall properly store, transport, and manage biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or groundwaters of the state. The Permittee shall manage solids in accordance with local, state, and federal requirements. [40 CFR 503, Minn. R. 7041]

5.6.114 Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent water quality degradation, except where the facility requires emergency maintenance to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]

5.6.115 Control Tests. The Permittee shall conduct in-plant control tests at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]

5.6.116 Changes to the Facility or Permit. [Minn. R. 7001]

5.6.117 Permit Modifications. Except as provided under Minn. Stat. ch. 115.07, subd. 1 and 3, no person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted, nor shall a person commence an activity for which a permit is required by statute or rule until the MPCA issues a written permit for the facility or activity.

Permittees that propose to make changes to the facility or discharge that requires permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether the proposed changes require a permit modification, the Permittee shall contact the MPCA prior to any action. The MPCA recommends that Permittees submit the application for permit modification to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]

5.6.118 This permit does not require plans, specifications, and MPCA approval when maintenance dictates the need for installation of new equipment, provided the equipment is the same design size and has the same design intent. For instance, Permittees can replace a broken pipe, lift station pump, aerator, or blower with the same design-sized equipment without MPCA approval.

If this permit does not expressly authorize the Permittee proposed construction, the MPCA may require a permit modification. If the proposed construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until the MPCA issues a negative declaration and the Permittee receives or implements all approvals. [Minn. R. 7001.0030]

5.6.119 Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(M)]

5.6.120 Chemical Additives. The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature, and/or quality of the discharge.

The Permittee shall request approval for an increase or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increase or new use. The Permittee shall include at least the following information for the proposed additive as instructed in the chemical additive approvals section on the MPCA website at https://www.pca.state.mn.us/water/wastewater-additional-guidance-and-information:

A. The process for which the additive will be used;
B. Safety Data Sheet (SDS) which shall include aquatic toxicity, human health, and environmental
fate information for the proposed additive. The aquatic toxicity information shall include at minimum the results of: a) a 48-hour LC50 or EC50 acute study for a North American freshwater planktonic crustacean (either Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50 acute study for rainbow trout, bluegill, or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean;
C. A complete product use and instruction label;
D. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the SDS does not include information on chemical composition, including percentages for each ingredient totaling to 100%, the Permittee shall contact the supplier to have this information provided); and
E. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use.

Upon review of the information submitted regarding the proposed chemical additive, the MPCA may require additional information be submitted for consideration. This permit may be modified to restrict the use or discharge of a chemical additive and include additional influent and effluent monitoring requirements. Approval for the use of an additive shall not justify the exceedance of any effluent limitation nor shall it be used as a defense against pollutant levels in the discharge causing or contributing to the violation of a water quality standard. [Minn. R. 7001.0170]

5.6.121 MPCA Initiated Permit Modification, Suspension, or Revocation. The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance of this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]

5.6.122 Total Maximum Daily Load (TMDL) Impacts. The MPCA may require facilities that discharge to an impaired surface water, watershed, or drainage basin to comply with additional permits or permit requirements. These requirements can include additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR ch. 122.44(l)(2)(i), necessary to ensure consistency with the assumptions and requirements of any applicable EPA approved wasteload allocations resulting from TMDL studies. [40 CFR 122.44(l)(2)]

5.6.123 Permit Transfer. This 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 who receives permit transference shall comply with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(N)]

5.6.124 Facility Closure. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee to provide a Facility Closure Plan to the MPCA for approval. The MPCA may require a permit modification or reissuance for facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or groundwater.

The MPCA may require the Permittee to establish and maintain financial assurance to ensure performance of certain obligations under this permit, including closure, post-closure care, and remedial action at the facility. If the MPCA requires financial assurance, the MPCA shall approve the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance. [Minn. Stat. ch. 116.07, subd. 4]

5.6.125 Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance: Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]

5.6.126 If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit,
in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following:

A. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit;

B. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; or

C. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of deficiencies.

[Minn. R. 7001.0040, Minn. R. 7001.0160]
## 7. Submittal action summary

<table>
<thead>
<tr>
<th>Facility</th>
<th>Action Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WS001</strong> Internal Waste Stream</td>
<td>Facility Specific Limit and Monitoring Requirements</td>
</tr>
<tr>
<td>6.1.1</td>
<td>The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]</td>
</tr>
<tr>
<td><strong>WS002</strong> Internal Waste Stream</td>
<td>Facility Specific Limit and Monitoring Requirements</td>
</tr>
<tr>
<td>6.2.1</td>
<td>The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]</td>
</tr>
<tr>
<td><strong>MN0071544</strong> Wastewater Treatment</td>
<td>Special Requirements</td>
</tr>
<tr>
<td>6.3.1</td>
<td>The Permittee shall submit a semi-annual Demonstration Project Summary Report. The report must include the following information: A. Total amount processed at the demonstration plant during the preceding 6-months; B. Total volume of waste material and/or rejects transferred to the waste management area during the preceding 6-months; and C. Verification there has been no discharge or overflow of wastewater or stormwater from the waste management area. Semi-annual reports shall be submitted until such time that the demonstration project is concluded or when a total of 500,000 metric tons of material has been processed, whichever is sooner. The first semi-annual summary report is due by February 1, 2021 to cover the period of operation through December 31, 2020. submit a report : Due semiannually. [Minn. R. 7001]</td>
</tr>
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**Total Facility Requirements (SDS)**

6.4.2 Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance: Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]
8. Limits and monitoring

<table>
<thead>
<tr>
<th>Subject item</th>
<th>Parameter</th>
<th>Discharge limitations</th>
<th>Monitoring requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS001</td>
<td>Chloride, Total</td>
<td>Monitor only. calendar month average</td>
<td>twice per month</td>
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<td>Grab</td>
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<td>Jan-Dec</td>
</tr>
<tr>
<td>WS001</td>
<td>Hardness, Calcium &amp; Magnesium, Calculated (as CaCO3)</td>
<td>Monitor only. calendar month average</td>
<td>twice per month</td>
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<tr>
<td></td>
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<td>Jan-Dec</td>
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<tr>
<td>WS001</td>
<td>Iron, Dissolved (as Fe)</td>
<td>Monitor only. calendar month average</td>
<td>twice per month</td>
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<td>WS001</td>
<td>pH</td>
<td>Monitor only. calendar month minimum</td>
<td>twice per month</td>
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<tr>
<td>WS001 Internal Waste Stream - Waste Management Area</td>
<td>Precipitation</td>
<td>Monitor only. calendar month total inches</td>
<td>Frequency: once per day</td>
</tr>
<tr>
<td>WS001 Internal Waste Stream - Waste Management Area</td>
<td>Solids, Total Dissolved (TDS)</td>
<td>Monitor only. calendar month average</td>
<td>Frequency: twice per month</td>
</tr>
<tr>
<td>WS001 Internal Waste Stream - Waste Management Area</td>
<td>Specific Conductance</td>
<td>Monitor only. calendar month average</td>
<td>Frequency: twice per month</td>
</tr>
<tr>
<td>WS001 Internal Waste Stream - Waste Management Area</td>
<td>Sulfate, Total (as SO4)</td>
<td>Monitor only. calendar month average</td>
<td>Frequency: twice per month</td>
</tr>
<tr>
<td>WS002 Internal Waste Stream - Waste Staging Area</td>
<td>Chloride, Total</td>
<td>Monitor only. calendar month average</td>
<td>Frequency: twice per month</td>
</tr>
<tr>
<td>WS002 Internal Waste Stream - Waste Staging Area</td>
<td>Hardness, Calcium &amp; Magnesium, Calculated (as CaCO3)</td>
<td>Monitor only. calendar month average</td>
<td>Frequency: twice per month</td>
</tr>
<tr>
<td>Subject Item</td>
<td>Parameter</td>
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<tr>
<td>WS002</td>
<td>Iron, Dissolved (as Fe)</td>
<td>Monitor only. calendar month average</td>
<td>Milligrams per liter</td>
</tr>
<tr>
<td>WS002</td>
<td>Iron, Total (as Fe)</td>
<td>Monitor only. calendar month average</td>
<td>Milligrams per liter</td>
</tr>
<tr>
<td>WS002</td>
<td>pH</td>
<td>Monitor only. calendar month minimum</td>
<td>Standard units</td>
</tr>
<tr>
<td>WS002</td>
<td>Precipitation</td>
<td>Monitor only. calendar month total</td>
<td>Inches</td>
</tr>
<tr>
<td>WS002</td>
<td>Solids, Total Dissolved (TDS)</td>
<td>Monitor only. calendar month average</td>
<td>Milligrams per liter</td>
</tr>
<tr>
<td>WS002</td>
<td>Specific Conductance</td>
<td>Monitor only. calendar month average</td>
<td>Micromhos per cm</td>
</tr>
<tr>
<td>Subject item</td>
<td>Parameter</td>
<td>Discharge limitations</td>
<td>Monitoring requirements</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------------------------</td>
<td>-----------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>WS002 Internal Waste Stream - Waste Staging Area</td>
<td>Sulfate, Total (as SO4)</td>
<td>Monitor only. calendar month average</td>
<td>Monitor only. calendar month maximum</td>
</tr>
</tbody>
</table>