MINNESOTA POLLUTION CONTROL AGENCY

National Pollutant Discharge Elimination System/State Disposal System

MN0067962

Permittee:	Cliffs Erie LLC
Facility name:	Cliffs Erie-Taconite Harbor Dock
Receiving water:	Lake Superior Shoreline - Class 1B, 2A, 3, 4A, 4B, 5, 6 water
City or Township:	Schroeder, **County:** Cook
Issuance date:	April 1, 2023
Expiration date:	March 31, 2028

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 and to discharge from this facility to the receiving water named above, in accordance with the requirements of this permit.

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

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

Signature: Elise M. Doucette

This document has been electronically signed.

Elise M Doucette, Supervisor
Water Section
Industrial Division

for the Minnesota Pollution Control Agency

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

Questions on this permit?
For eDMR and other permit reporting issues, use the directory listed at the bottom of the DMR page:
https://www.pca.state.mn.us/business-with-us/discharge-monitoring-reports

For specific permit requirements, contact your compliance staff:
https://www.pca.state.mn.us/business-with-us/wastewater-compliance-and-enforcement-staff

Wastewater Permit Program general questions, contact:
MPCA, 651-282-6143 or 1-800-657-3938.

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1. Permitted facility description

The Cliffs Erie-Taconite Harbor Dock facility (facility) is located at 8124 W Highway 61, Schroeder, Minnesota 55613, Cook County.

Cliffs Erie LLC is the responsible party for the (inactive) Taconite Harbor Dock and Closed Ash Landfill site located at 8124 West Highway 61, Schroeder Township, Cook County, Minnesota. The former activity at this site consisted of rail car unloading, transfer, storage and bulk ship loading of taconite pellets, limestone stockpiling and electrical power generation (which still occurs, but under different ownership) utilizing coal. The power plant and associated coal pile are located in the northeast of the site, and currently owned and operated by Minnesota Power, under the original NPDES/SDS permit issued when the site was engaged in its former activity. Coal ash is a waste product of power production and was landfilled at this site.

The Taconite Harbor Dock & Closed Ash Landfill facility is 428.3 acres. Of this approximately 25% or 110 acres is or was engaged in an industrial activity. The site extends from the shore of Lake Superior, angling towards the northwest. It covers nearly all of the S1/2 of Sec 2, T58N, R5W; most of the E1/2 of Sec 11, T58N, R5W, and the S1/2 of the triangle forming the landlocked portion of S 12, T58N, R5W. The Closed Ash Landfill is located in the center of the S1/2, S 2, T58N, R5W.

The former dock water sedimentation basin system (sedimentation ponds A & B and the clear water basin), dock dust suppression system, and dock wash water system are completely inactive. There are no discharges into or out of sedimentation ponds A & B or the clear water basin, which were an active part of the treatment system for the former ore dock operations. The taconite ore loading dock is inactive and has been cleaned. The dock's twenty-five stormwater drains have been unplugged (during former operations water from the stormwater drains was routed to the dock water sedimentation basin system) and stormwater from the ore loading dock is allowed to discharge directly to Lake Superior.

This permit authorizes the discharge of stormwater associated with past industrial activity that may contain minor amounts of residual taconite iron ore units (pellets, pellet chips & fines) scattered throughout the site and remainders of limestone stockpiles as a result of past operations; as well as windblown coal fines from the adjacent Minnesota Power Taconite Harbor Energy Center power plant. The majority of the stormwater is conveyed to Lake Superior via a 72-inch diameter stormwater culvert, regulated as Surface Discharge station SD 001. The Permittee has established a system of berms, ditches, and drainageways to convey stormwater contacting areas of previous industrial activity towards the sedimentation ponds and the 72" storm culvert. Stormwater drainage from the closed ash landfill area is routed through a series of four sedimentation ponds (sedimentation ponds 1-4). Sedimentation ponds 2 and 4 discharge into sedimentation pond 3 which in turn discharges into the 72" storm culvert which discharges into Lake Superior.

In the near center of the site is the closed coal ash landfill. Leachate from the closed coal ash landfill is collected and discharged into a leachate collection pond, located immediately to the east of the closed landfill. The Permittee conducts influent analysis of pollutant levels for various minerals and metals (waste stream station WS 001). Flow volume into the pond is not monitored, but is estimated to average approximately 2,880 gallons per day (gpd) [pumping rate of ~2 gallons per minute (gpm)] and an ~ maximum rate of 15,120 gpd (pumping rate of ~10.5 gpm) based on visual observations.

Periodically, the volume is pumped from the leachate pond and transported off-site to the city of Grand Marais' wastewater treatment facility (POTW).

The facility description is continued below in the Facility Description chapter of the permit.

Changes to the facility may result in an increase in pollutant loading to surface waters or other causes of degradation to surface waters. If a change to the facility will result in a net increase in pollutant loading or other causes of degradation that exceed the maximum loading authorized through conditions specified in the existing permit, the changes to the facility are subject to antidegradation requirements found in Minn. R. 7050.0250 to 7050.0335.

The Lake Superior Shoreline - Class 1B, 2A, 3, 4A, 4B, 5, 6 water was designated an Outstanding Resource Value Water (ORVW).

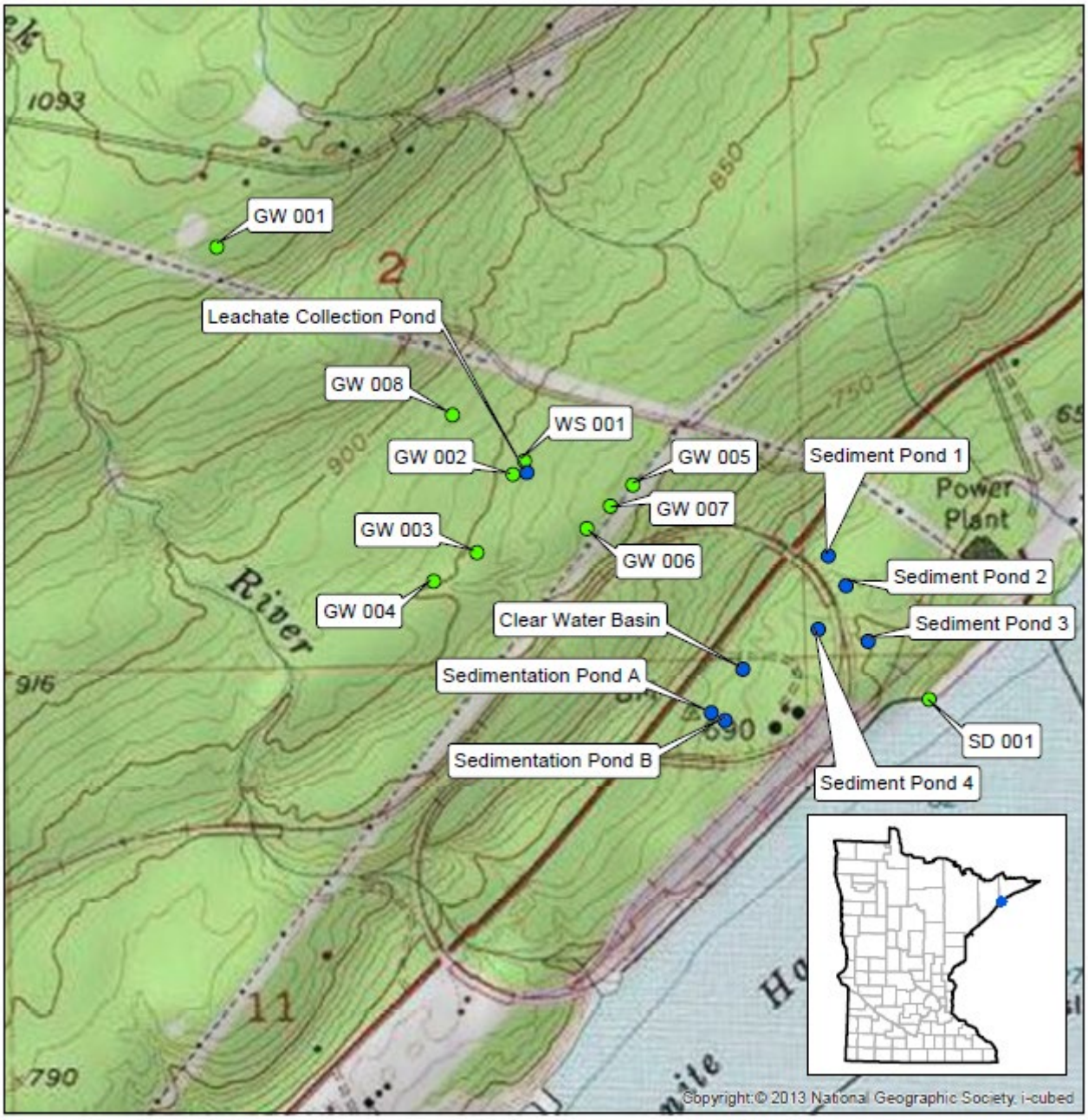
This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

Any point source discharger of sewage, industrial, or other wastes for which a NPDES permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue to meet the effluent limits established by the permit, unless the permittee establishes that less stringent effluent limits are allowable pursuant to federal law, under section 402(o) of the Clean Water Act, United States Code, title 33, section 1342.]

2. Location map of permitted facility

Topographical Map of Permitted Facility

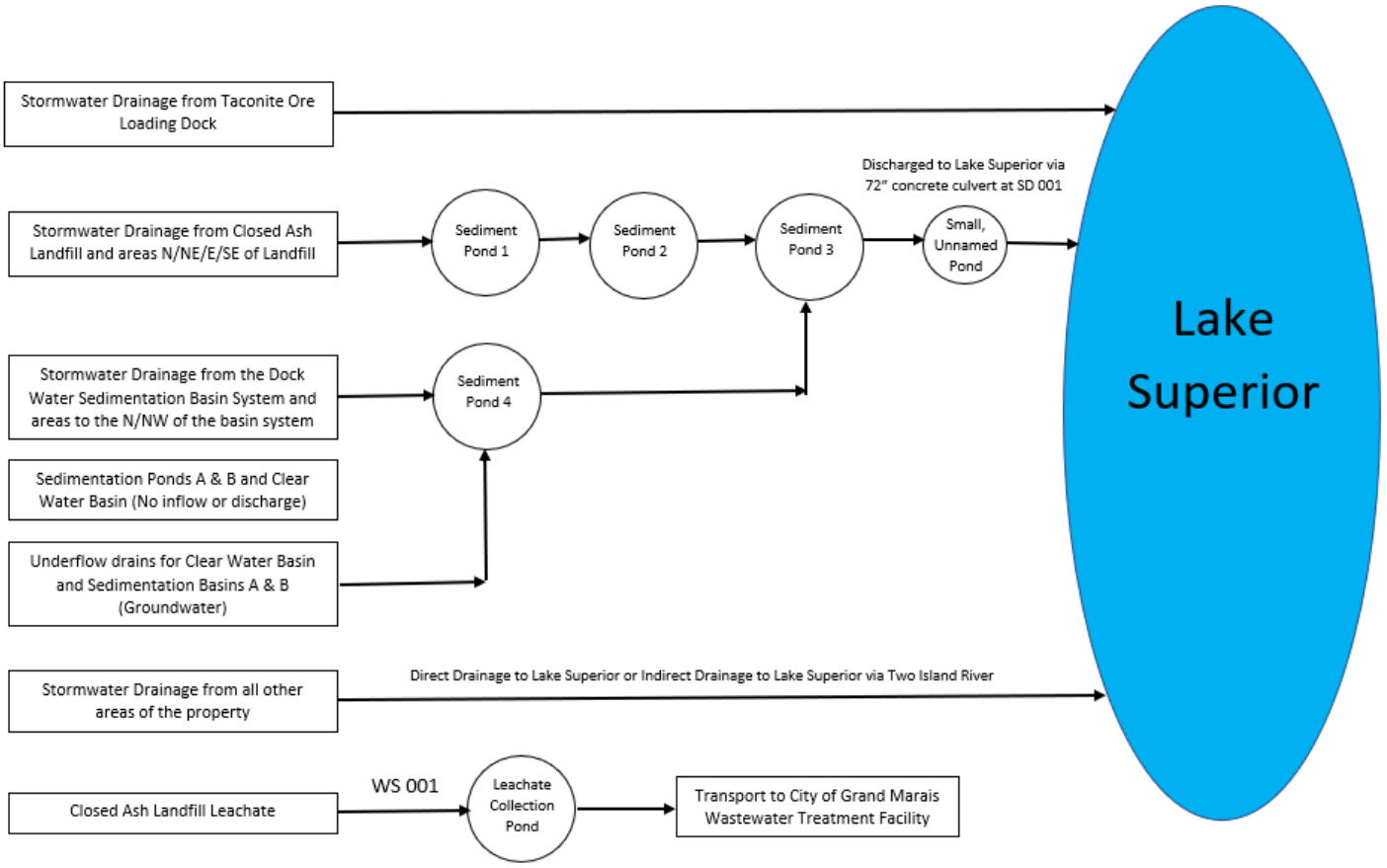
MN0067962: Cliffs Erie - Taconite Harbor Dock
T58N, R5W, Section 12
Schroeder, Cook County, Minnesota



Map produced by: MPCA Staff, 12/13/2022
Scale: 1:11,346

0 0.1 0.2 0.4 Miles

3. Flow diagram



4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
GW 001	Well, Upgradient	Aldinger Well	T58N, R05W, S02, SE Quarter of the NW Quarter
GW 002	Well, Downgradient	MW 101	T58N, R05W, S02, SW Quarter of the SE Quarter
GW 003	Well, Downgradient	MW 102	T58N, R05W, S02, SW Quarter of the SE Quarter
GW 004	Well, Downgradient	MW 103	T58N, R05W, S02, SW Quarter of the SE Quarter
GW 005	Well, Downgradient	MW 104	T58N, R05W, S02, SE Quarter of the SE Quarter
GW 006	Well, Downgradient	MW 105	T58N, R05W, S02, SW Quarter of the SE Quarter
GW 007	Well, Downgradient	MW 106	T58N, R05W, S02, SE Quarter of the SE Quarter
GW 008	Well, Downgradient	MW-30D	T58N, R05W, S02, NW Quarter of the SE Quarter
GW 009	Well, Upgradient	New Upgradient Well	To Be Determined
GW 010	Well, Downgradient	New Downgradient Well	To Be Determined
GW 011	Well, Downgradient	New Downgradient Well	To Be Determined
SD 001	Stormwater, Non-specific Runoff	72" culvert to Lake Superior	T58N, R05W, S12, NW Quarter of the NW Quarter
WS 001	Internal Waste Stream	Closed Ash Landfill Leachate	T58N, R05W, S02, SW Quarter of the SE Quarter

5. Permit requirements

GW 001	Well, Upgradient	
		Facility Specific Limit and Monitoring Requirements
	5.1.1	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)]
	5.1.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.3	Samples for Station GW 001 shall be taken at well # 144783 (Aldinger well). [Minn. R. 7001.0150, Subp. 2(B)]
GW 002	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.2.1	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)]
	5.2.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.2.3	Samples for Station GW 002 shall be taken at well # 551761. [Minn. R. 7001.0150, Subp. 2(B)]
GW 003	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.3.1	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)]
	5.3.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.3.3	Samples for Station GW 003 shall be taken at well # 551762. [Minn. R. 7001.0150, Subp. 2(B)]
GW 004	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.4.1	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)]
	5.4.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.4.3	Samples for Station GW 004 shall be taken at well # 551763. [Minn. R. 7001.0150, Subp. 2(B)]
GW 005	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.5.1	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)]
	5.5.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.5.3	Samples for Station GW 005 shall be taken at well # 551764. [Minn. R. 7001.0150, Subp. 2(B)]
GW 006	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.6.1	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)]

	5.6.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.6.3	Samples for Station GW 006 shall be taken at well # 551765. [Minn. R. 7001.0150, Subp. 2(B)]
GW 007	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.7.1	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)]
	5.7.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.7.3	Samples for Station GW 007 shall be taken at well # 551766. [Minn. R. 7001.0150, Subp. 2(B)]
GW 008	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.8.1	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)]
	5.8.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.8.3	Samples for Station GW 008 shall be taken at well # 496897. [Minn. R. 7001.0150, Subp. 2(B)]
GW 009	Well, Upgradient	
		Facility Specific Limit and Monitoring Requirements
	5.9.1	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)], Phases: Phase 2
	5.9.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.9.3	Samples for Station GW 009 shall be taken at the new upgradient monitoring well. [Minn. R. 7001.0150, Subp. 2(B)]
GW 010	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.10.1	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)], Phases: Phase 2
	5.10.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.10.3	Samples for Station GW 010 shall be taken at the new downgradient monitoring well. [Minn. R. 7001.0150, Subp. 2(B)]
GW 011	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.11.1	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)], Phases: Phase 2
	5.11.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.11.3	Samples for Station GW 011 shall be taken at the new downgradient groundwater monitoring well. [Minn. R. 7001.0150, Subp. 2(B)]

SD 001	Stormwater, Non-specific Runoff	
		Facility Specific Limit and Monitoring Requirements
	5.12.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.12.2	**Sampling Location**. [Minn. R. 7001.0150, subp. 2(B)]
	5.12.3	Samples for Station SD 001 shall be taken at the point of inflow to the 72" culvert. [Minn. R. 7001.0150, subp. 2(B)]
WS 001	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.13.1	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)]
	5.13.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.13.3	Samples for Station WS 001 shall be taken at a point representative of the leachate transported to the publicly owned treatment works (POTW). [Minn. R. 7001.0150, Subp. 2(B)]
MN0067962	Cliffs Erie-Taconite Harbor Dock	
		Facility Description and Location
	5.14.1	There are eight ground water monitoring wells; wells GW 002, 003, 004, 005, 006, and 007 are located downgradient of the landfill and the leachate collection pond. GW 001 (Aldinger Well at a private residence) is a control well used as background and is located to the north across the property line. Its location ensures that it is unaffected by the landfill or leachate collection pond. GW 008 is located to the east of the landfill and north of the leachate collection pond. All other wells are south and east of the closed landfill, consistent with ground water flow patterns. Well GW 004 is 150 feet downgradient of the closed landfill and GW 003 is in the same general area. GW 002 is adjacent to the leachate collection pond, and 50 feet downgradient of the landfill with respect to general groundwater flow. Wells GW 005, 006, and 007 are further downgradient of both the closed landfill and the leachate collection pond; GW 005 being 900 feet downgradient. [Minn. R. 7001]
	5.14.2	On July 28, 1993, roughly half of the stored volume of ash was displaced out of a containment dike. On August 6, 1993, MPCA staff issued a declaration of emergency in response to the ash flow and LTV Steel Mining Co. submitted a permit application for the construction and operation of a solid waste disposal facility; the application was revised on August 16, 1993. In consultation with MPCA, the recovered ash was placed immediately downgradient of the original ash fill area. It was required to be stored inside a containment dike, above a constructed liner and operate a leachate collection system. The original ash fill was allowed to remain in place without a liner, although was regraded to reduce overall footprint. Final cover construction was completed on July 1, 1994 and encompassed both the original and new ash storage areas. Implementing this strategy resulted in the landfill arrangement where a compacted clay containment dike and liner exists only at the new portion of the landfill which represents approximately 1/3 of the landfill footprint. The post closure period began on January 1, 1995. [Minn. R. 7001]
		Groundwater Station General Requirements
	5.15.3	**Monitoring Wells**. [Minn. R. 7001]
	5.15.4	Install, maintain, and seal groundwater monitoring wells according to the Minnesota Water Well Construction Code, Minnesota Rules, ch. 4725. Repair or properly seal and replace damaged or

		improperly constructed monitoring wells. Information on licensed water well contractors is available from the Minnesota Department of Health. [Minn. R. 4725]
	5.15.5	Submit a detailed well log and a detailed U.S. Geological Survey topographical map identifying the location for each monitoring well at the facility within 30 days after well installation. [Minn. R. 7001]
	5.15.6	Clearly number each monitoring well on the outside of the well with either indelible paint or an inscribed number. [Minn. R. 7001]
	5.15.7	Sample monitoring wells according to the MPCA publication, "Sampling Procedures for Ground Water Monitoring Wells, July 1997, Reviewed and re-approved September 2006" (wq-gw1-01, 9/06) or any updates to this document. A copy of this publication is available on the MPCA website at: http://www.pca.state.mn.us. [Minn. R. 7001]
	5.15.8	Collect grab samples at all groundwater monitoring points (lysimeters or wells) after well stabilization field measurements are conducted. [Minn. R. 7001]
	5.15.9	Prior to well purging and sampling, measure the depth to groundwater the nearest 0.01 foot below the top of the well casing. Report groundwater elevations to the nearest 0.01 foot above mean sea level. [Minn. R. 7001]
	5.15.10	Temperature, specific conductance, and pH shall be reported as the final field measurements from well stabilization. [Minn. R. 7001]
	5.15.11	**Analysis Requirements**. [Minn. R. 7001]
	5.15.12	Specific Conductance and pH analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]
	5.15.13	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 "No Flow" or "No Discharge" 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)]
		Surface Discharge Station General Requirements
	5.16.14	**Representative Samples**. [Minn. R. 7001]
	5.16.15	Samples and measurements required by this permit shall be representative of the monitored activity. [Minn. R. 7001]
	5.16.16	**Surface Discharge Prohibitions**. [Minn. R. 7001]
	5.16.17	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.16.18	Do not discharge oil or other substances in amounts that create a visible color film. [Minn. R. 7001]
	5.16.19	Install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.16.20	**Winter Sampling Conditions**. [Minn. R. 7001]
	5.16.21	Sample flows at the designated monitoring stations, including when ice removal is required to sample the water. If there is a frozen station throughout a designated sampling month, check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
	5.16.22	**Special Requirements**. [Minn. R. 7001]
	5.16.23	The Permittee shall sample parameters at SD 001 during periods of discharge only. [Minn. R. 7001]
	5.16.24	**Analysis Requirements**. [Minn. R. 7001]
	5.16.25	Specific Conductance and pH analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7001]
	5.16.26	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 "No Flow" or "No Discharge" 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)]

		Waste Stream Station General Requirements
	5.17.27	**Representative Samples**. [Minn. R. 7001]
	5.17.28	Collect grab and composite samples at a point representative of total influent flow to the system. [Minn. R. 7001]
	5.17.29	Influent grab and composite samples shall be collected in the sewer system prior to the primary cell. [Minn. R. 7001]
	5.17.30	Samples from station WS 001 shall be representative of the leachate transported to the publicly owned treatment works (POTW). [Minn. R. 7001]
	5.17.31	**Analysis Requirements**. [Minn. R. 7001]
	5.17.32	Leachate Collection Pond mercury samples shall be collected using EPA methods consistent with the pretreatment agreement between Cliffs Erie LLC and Grand Marais POTW. Other metal analyses required by this permit, except for iron, shall be conducted using low-level detection methods, for example atomic adsorption (AA) furnace methods. [Minn. R. 7001]
	5.17.33	Specific Conductance and pH analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]
	5.17.34	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 "No Flow" or "No Discharge" 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)]
		Special Requirements
	5.18.35	**Groundwater Monitoring Well Installation Plan**. [Minn. R. 7001]
	5.18.36	The Permittee shall submit a ground water monitoring well installation plan : Due by 90 days after permit issuance for three new groundwater monitoring wells. The plan shall include the following elements, at a minimum: A. A map of proposed monitoring well locations; and B. Estimated monitoring well construction specifications. [Minn. R. 7001]
	5.18.37	The Permittee shall install three new groundwater monitoring wells. One well shall be completed upgradient of the landfill area and two wells shall be completed downgradient of the landfill area; the downgradient wells shall be located in an area that intercepts groundwater flowing beneath the western portion of the landfill and is in-line with GW 005, GW 006, and GW 007. Additionally, wells shall be constructed so that the well screen or open hole interval intersects the water table surface. Upon MPCA approval of the Groundwater Monitoring Well Installation Plan, the new monitoring wells shall be installed within 6-months following MPCA approval and a Monitoring Well Installation Report shall be submitted upon completion. The Monitoring Well Installation Report shall provide the following information, at a minimum: A. A copy of the Minnesota Department of Health Well and Boring Records for the wells installed; B. Geotechnical soil borings for the wells installed; C. Construction diagram of the wells installed showing all dimensions and surveyed elevation of the innermost casing and ground elevation. D. Surveyed Universal Transverse Mercator or latitude/longitude coordinates of all wells in the monitoring network; E. Surveyed elevation of the innermost casing and ground elevation of all wells in the monitoring network; and F. Revised scales plan drawing showing the locations of all wells in the monitoring network. [Minn. R. 7001]
	5.18.38	The new upgradient monitoring well will be assigned as station GW 009 and the downgradient monitoring wells will be assigned GW 010 and GW 011. The permit includes phases for monitoring

		required at each well: During phase one, the Permittee will be required to submit sample results for the existing wells (GW 001 - GW 008). Phase two will add the three new wells to the monitoring network, and all wells (GW 001 - GW 011) will be required to be sampled. Notify the MPCA when the new wells are installed and monitoring can begin at the new GW stations. [Minn. R. 7001]
	5.18.39	**Annual Groundwater Monitoring Report**. [Minn. R. 7001]
	5.18.40	The Permittee shall submit an annual report : Due by February 1 of each year following permit issuance The Annual Groundwater Monitoring Report shall include the following information, at a minimum: A. Concentrations of constituents monitored in groundwater, including any data from previous years; B. Comparison of constituents monitored in groundwater and constituents monitored in landfill leachate; C. Analysis of whether groundwater is being contaminated by closed landfill/leachate collection pond; D. Recommended monitoring and operational changes for the following year; and E. Additional analysis, corrective action plans, or other information as required. [Minn. R. 7001]
	5.18.41	**Exceedance of Intervention Limit in Groundwater**. [Minn. R. 7001]
	5.18.42	An exceedance of a groundwater monitoring intervention limit does not constitute a violation of this permit. However, the Permittee shall take the following actions if there is an exceedance of a groundwater monitoring intervention limit: 1. Determine the validity of the test result and resample if past test results have not exceeded the intervention limit or if the result may be invalid for other reasons. 2. Submit a data analysis of the exceedance that includes the following information as a supplement to the Groundwater Annual Report required by the "Annual Report" part of this chapter: A. Potential sources of the groundwater exceedance and causes for the limit exceedance. B. An evaluation of the exceedance(s) as compared to past groundwater quality data that considers trends and the significance of limit exceedances. C. Determine contaminant loading from the closed landfill and leachate collection pond including factors that could contribute to the exceedance for the last five years. 3. Submit a corrective action plan that describes the steps to be taken to reduce the contaminant concentration in the groundwater. The corrective action plan shall be updated annually to determine its effectiveness and whether alternative actions are necessary to reduce the contaminant levels in groundwater. The corrective action plan and its updates shall be submitted as part of the Groundwater Annual Report required by the "Annual Report" part of this chapter. [Minn. R. 7001]
	5.18.43	For an intervention limit exceedance that is greater than or equal to the respective drinking water standards: Arsenic - 10 ug/L (Environmental Protection Agency [EPA] Maximum Contaminant Level) Boron - 500 ug/L (Minnesota Department of Health [MDH] Risk Assessment Advice) Manganese - 100 ug/L (MDH Health Risk Limit) Selenium - 30 ug/L (MDH Health Risk Limit) or background levels (whichever is greater), at GW 002, GW 003, GW 004, GW 005, GW 006, GW 007, GW 008, GW 010, and GW 011, the following additional actions shall be taken unless the MPCA states in writing that these actions are not necessary: 1. The need for installation of additional wells to determine the extent of groundwater contamination shall be evaluated and additional wells installed if needed.

		2. A groundwater receptor survey shall be conducted for the area within a 1.0-mile radius of the closed landfill/leachate collection pond boundary that includes property owner, property address, well depth, and identification of the aquifer drinking water is drawn from. 3. An evaluation of the hydraulic interconnection between the aquifer being monitored and the drinking water aquifer(s) if they are different. 4. Sampling and analysis of drinking water wells for applicable contaminants within a 1.0-mile radius of the closed landfill/leachate collection pond if aquifers are found to be interconnected, and there is a potential that drinking water may be affected by the process wastewater. 5. Other actions as necessary to evaluate the problem and determine appropriate corrective actions to be taken. 6. Submit this information as part of the Groundwater Annual Report required by the "Annual Report" part of this chapter. [Minn. R. 7001]
	5.18.44	**Annual Facility Report**. [Minn. R. 7001]
	5.18.45	The Permittee shall submit an annual report : Due annually, by the 1st of February for the preceding calendar year. The report must include summary evaluation reports and specific annual reporting requirements for the closed ash landfill. [Minn. R. 7001]
	5.18.46	The annual facility report must cover all facility activities during the previous calendar year and must include the following information: A. The permit number, name, and address of the facility; B. The year covered by the report; C. The most recent post-closure cost estimate; D. An assessment of the adequacy of the post-closure plan; E. The summary evaluation of the groundwater monitoring program; F. A certification by the owner or operator of the facility; and G. The personnel training protocol: 1. The training program must train facility personnel to deal effectively with problems at the site including: i. Using, inspecting, repairing, and replacing facility emergency and monitoring equipment; ii. Activating communication and alarm systems; iii. Responding to fires; iv. Responding to facility failures, including erosion and failure of liners or monitoring devices; v. Responding to groundwater or surface water pollution incidents; and vi. Water sampling. [Minn. R. 7001]
	5.18.47	**Post Closure Care Plan**. [Minn. R. 7001]
	5.18.48	The post closure care plan (PCCP) submitted in November 2001 and amended in December 2007 shall be amended to reflect the changes made in this reissuance of the facility's NPDES/SDS permit. The Permittee shall submit a plan : Due by 60 days after permit issuance. [Minn. R. 7001]
	5.18.49	**Closed Ash Landfill Inspections**. [Minn. R. 7001]
	5.18.50	The Permittee shall conduct comprehensive inspections of the Closed Ash Landfill on a semi-annual basis in accordance with the Post-Closure Care Plan dated December 2007. [Minn. R. 7001]
	5.18.51	**Definitions**. [Minn. R. 7001]
	5.18.52	"Aquifer" means unconsolidated material or rock capable of producing water to supply a well. [Minn. R. 7001]
	5.18.53	"Groundwater" means water contained below the surface of the earth in the saturated zone including, without limitation, all waters whether under confined, unconfined, or perched conditions, in near-surface unconsolidated sediment or regolith, or in rock formations deeper underground. [Minn. R. 7001]
	5.18.54	"Monitoring well" means an excavation that is drilled, cord, bored, washed, driven, dug, jetted, or otherwise constructed to extract groundwater for physical, chemical, or biological testing. "Monitoring well": includes a groundwater quality sampling well. [Minn. R. 7001]

		Industrial Pond System
	5.19.55	**Authorization**. [Minn. R. 7001]
	5.19.56	The discharge of ponds or impoundments to groundwater is regulated strictly through Minnesota State Disposal System (SDS) authority only. Discharges to Waters of the U.S. via groundwater are not within the scope of the NPDES authorization of this permit. [Minn. R. 7001]
	5.19.57	The requirements in the Industrial Pond System chapter of this permit are applicable to the Leachate Collection Pond. [Minn. R. 7001]
	5.19.58	**Maintenance of Wastewater Ponds**. [Minn. R. 7001]
	5.19.59	The Permittee shall not allow growth of willows, poplars, cottonwoods, shrubs, and cattails in the pond or on the dikes, regardless of water depth in the pond. The Permittee shall control and remove such plants and harmful vegetative growth from the pond and pond structure. The Permittee may only grow alfalfa and reed canary grass on outer pond dikes. The Permittee shall control alfalfa and reed canary grass along with other vegetation at a height to allow for dike integrity and burrowing animal detection. [Minn. R. 7001]
	5.19.60	The Permittee shall use approved methods to prevent muskrats and other burrowing animals from tunneling and causing damage to the pond liner or dikes. [Minn. R. 7001]
	5.19.61	In addition to the requirements of this Permit, the Permittee shall operate and maintain the pond system in accordance with MPCA's "Stabilization Pond Systems Operations, Maintenance, Management" (2013) or most recent version. [Minn. R. 7001]
	5.19.62	**Solids Removal**. [Minn. R. 7001]
	5.19.63	Prior to the excavation or removal of solids from any wastewater pond at the facility, the Permittee shall implement measures to maintain the integrity of the pond liner during the removal process. [Minn. R. 7001]
	5.19.64	The Permittee shall complete a water balance (barrel test) on the pond within seven months of each removal action. The MPCA may review the results at the facility or upon request. The water balance evaluation procedure is described in the MPCA document "Prefill and Water Balance Criteria (12/10) https://www.pca.state.mn.us/sites/default/files/wq-wwtp5-61b.pdf. [Minn. R. 7001]
	5.19.65	The Permittee shall evaluate groundwater quality monitoring results before and after the removal of solids to assess the potential impacts of the pond on groundwater. The Permittee shall report any changes to the MPCA with the next scheduled electronic Discharge Monitoring Report (eDMR). [Minn. R. 7001]
	5.19.66	No impact demonstration. The requirements of a water balance barrel test or groundwater monitoring requirements listed above can be waived if the Permittee can successfully demonstrate that the removal action will not impact the liner of the wastewater pond, or the integrity thereof. To make this demonstration, submit a Removal Plan for MPCA review and approval at least 90 days prior to the anticipated removal date. The Removal Plan should include, at a minimum: A. A description of the proposed methodology(ies) to be used for the excavation or removal or solids; B. Any proposed deviations from the water balance procedure cited in subpart A, above; and, C. Justification that the removal action does not impact the liner of the wastewater pond. The Permittee shall only waive these requirements after they receive written approval of the Removal Plan by the MPCA. [Minn. R. 7001]
	5.19.67	**Application for Permit Reissuance**. [Minn. R. 7001]
	5.19.68	The Permittee shall submit a report : Due by 180 days prior to permit expiration. The report shall describe the findings of the inspection of the Leachate Collection Pond, related conveyances, and appurtenances to the pond system at the permitted facility. [Minn. R. 7001]
	5.19.69	Based on the inspection, the Permittee shall certify to the MPCA : Due by the end of each calendar five years following permit issuance that the pond system maintains structural integrity, complete containment, and compliance with performance standards in the Stabilization Pond Systems Operations, Maintenance, Management (2013) or most recent version. [Minn. R. 7001]

	5.19.70	The inspection and certification shall be completed by a registered professional engineer with expertise in wastewater structures. [Minn. R. 7001]
	5.19.71	An inspection report shall be prepared by the professional engineer and submitted with the application for permit reissuance and/or every five years, whichever comes first. [Minn. R. 7001]
	5.19.72	If repairs are necessary as a result of the professional engineer's inspection, a detailed proposal for restoration shall be submitted to the Agency for review within 180 days of discovery, and at least 60 days prior to initiation of restoration work. [Minn. R. 7001]
	5.19.73	**Discharge Requirements**. [Minn. R. 7001]
	5.19.74	The leachate pond is prohibited from discharging to surface water. [Minn. R. 7001]
	5.19.75	The Permittee shall complete sampling for WS 001 parameters one time per month in April, July, and October prior to transport to the POTW. Sampling is required only during periods of transport to the POTW. If there is no discharge during the reporting period, The Permittee shall check the "No Discharge" box on the Discharge Monitoring Report. [Minn. R. 7001]
	5.19.76	Samples shall be representative of the water to be discharged. When feasible, take composite samples from four sides of the pond prior to discharge and analyze for permitted parameters. [Minn. R. 7001]
	5.19.77	**Leachate Management**. [Minn. R. 7001]
	5.19.78	The Permittee shall operate and maintain the leachate detection, monitoring, collection, and on-site or off-site treatment system for the Taconite Harbor Closed Ash Landfill in accordance with the approved Post-Closure Care Plan. [Minn. R. 7001]
	5.19.79	The Permittee shall inspect the closed ash leachate collection pond and associated appurtenances weekly from March 15 through November 15. The results of the inspection and the leachate level of the pond (elevation relative to mean sea level) shall be recorded. For documentation purposes, as a minimum, the following shall be inspected and an evaluation recorded: fencing; pond liner; exterior slopes for erosion, trees, and shrubs; and surrounding areas for evidence of water seepage, holding tank valves and piping, and drain valve lines. The Permittee shall maintain records of these weekly inspections for the last three (3) years, and submit the results on the eDMR supplemental form. [Minn. R. 7001]
	5.19.80	During periods when the freeboard in the leachate collection pond is less than 2.5 feet, the Permittee shall inspect the pond two times per week. [Minn. R. 7001]
		Industrial Pretreatment
	5.20.81	**Authorization**. [Minn. R. 7049]
	5.20.82	This chapter authorizes the Permittee to discharge landfill wastewater generated at the facility to the City of Grand Marais Wastewater Treatment Facility. This activity is limited by the 'Limits and Monitoring' section of this permit, as well as the other terms and conditions of this permit, and the general and categorical pretreatment standards in Minn. R. 7049. [Minn. R. 7049]
	5.20.83	**Local Limits**. [Minn. R. 7049]
	5.20.84	In addition to the terms of this permit, the Permittee shall also comply with the prohibitions of the Federal General Pretreatment Regulations (40 CFR part 403.5); any local prohibitions and effluent limitations; and, any other requirements imposed by the POTW to which the Permittee discharges. In the event of a discrepancy between the limitations in this permit and any local prohibitions or requirements, the most restrictive limitations are controlling. [40 CFR 413]
	5.20.85	**General Requirements**. [Minn. R. 7049]
	5.20.86	The indirect discharge of leachate to a publicly owned treatment works is not subject to the national pretreatment standards (if any) found in 40 CFR 445 (Landfill Point Source Category). Item (e) reads: This part does not apply to discharges of landfill wastewater from landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill. [Minn. R. 7049]

	5.20.87	**Removed Substances**. [Minn. R. 7049]
	5.20.88	Removed substances shall be evaluated to determine if they are hazardous waste under the Minnesota Hazardous Waste Rules (Minn. R. ch. 7045), and if hazardous, managed in accordance with these Rules. [Minn. R. 7045]
	5.20.89	**Definitions**. [Minn. R. 7049]
	5.20.90	Landfill wastewater - as defined in 40 CFR pt. 445 (Landfills Point Source Category) all wastewater associated with, or produced by, landfilling activities except for sanitary, laboratory derived wastewater, contaminated stormwater, and contact washwater from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. [40 CFR 413]
	5.20.91	Leachate - liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste as defined in 40 CFR 257. [Minn. R. 7049]
	5.20.92	RCRA - Resource Conservation and Recovery Act. [Minn. R. 7049]
		Industrial Stormwater Sector G: Metal Mining (Ore Mining and Dressing)
	5.21.93	**Authorization**. [Minn. R. 7000]
	5.21.94	This chapter authorizes the Permittee to discharge stormwater associated with industrial activity from industrial activities associated with SIC code 1011 in accordance with the terms and conditions of this chapter. [Minn. R. 7090]
	5.21.95	**Prohibited Discharges**. [Minn. R. 7000]
	5.21.96	This chapter does not authorize the discharge of stormwater to prohibited waters as defined in Minn. R. 7050.0335. [Minn. R. 7090]
	5.21.97	This permit, unless specifically authorized by another chapter, does not authorize the discharge of 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. 7090]
	5.21.98	**Special Requirements**. [Minn. R. 7000]
	5.21.99	The Permittee shall maintain the integrity of the cap of the Closed Ash Landfill to lessen the chance of exposure of the Landfill's coal ash. [Minn. R. 7090]
	5.21.100	During routine inspections, the Permittee shall inspect the integrity of sedimentation ponds 1, 2, 3 and 4 and make repairs as necessary. [Minn. R. 7090]
	5.21.101	During routine inspections, the Permittee shall monitor sediment accumulation levels in sedimentation ponds 1, 2, 3 and 4. Within three days of noticing that sediment levels reach 1/2 of the riser height or 1/2 of the design hydraulic storage volume, the Permittee shall drain the pond and remove accumulated sediments. [Minn. R. 7090]
	5.21.102	**Water Quality Standards**. [Minn. R. 7000]
	5.21.103	The Permittee shall operate and maintain the facility and shall control runoff, including stormwater, from the facility to prevent the exceedance of water quality standards specified in Minnesota Rules, chs. 7050 and 7060. [Minn. R. 7050, Minn. R. 7060]
	5.21.104	The Permittee shall limit and control the use of materials at the facility that may cause exceedances of groundwater standards specified in Minnesota Rules, ch. 7060. These materials include, but are not limited to, detergents and cleaning agents, solvents, chemical dust suppressants, lubricants, fuels, drilling fluids, oils, fertilizers, explosives and blasting agents. [Minn. R. 7060]
	5.21.105	**Stormwater Pollution Prevention Plan**. [Minn. R. 7000]
	5.21.106	The Permittee shall develop and implement a Stormwater Pollution Prevention Plan (SWPPP) to address the specific conditions at the facility. The goal of the SWPPP is to eliminate or minimize contact of stormwater with significant materials that may result in pollution of the runoff. If contact cannot be eliminated or reduced, stormwater that has contacted significant material should be treated before it is discharged from the site. Guidance for preparing the SWPPP can be found on the web at: http://www.pca.state.mn.us. [Minn. R. 7090]

	5.21.107	At a minimum, the SWPPP must include: A. A description of the industrial activities conducted at the facility; B. A drainage map (USGS or equivalent) showing: i. Location of all impervious surfaces; ii. Arrows indicating directions of stormwater flow; and iii. Location of all structural and non-structural BMPs. C. An assessment and inventory of all activities or exposed materials that can potentially be sources of pollutants to stormwater discharges; D. A description of all structural and non-structural BMPs the Permittee designs or implements at the facility; E. A list of personnel receiving training to conduct facility inspections; F. Records of all details relating to the monthly visual inspections; G. Information pertaining to maintenance in accordance with Maintenance Requirements section of this permit; H. A spill prevention and response procedure; and I. A Mercury Minimization Plan if the Permittee discovers mercury sources as a result of compliance with the Stormwater Control Measures section of this permit. [Minn. R. 7090]
	5.21.108	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. Facility Map. The Permittee shall document in the SWPPP the locations of the following (as appropriate): i. Access and haul roads; ii. Outline of the drainage areas of each monitoring location within the facility with indications of the types of discharges from the drainage areas; iii. Location(s) of all permitted discharges covered under an individual NPDES/SDS permit, outdoor equipment storage, fueling, and maintenance areas; iv. Materials handling areas; v. Outdoor manufacturing, outdoor storage, and material disposal areas; vi. Outdoor chemical storage areas; vii. Overburden, materials, soils, or waste storage areas; and viii. Surface waters. B. Inventory of Exposed Materials. The Permittee shall document in the SWPPP the mining and associated activities that can potentially affect stormwater, including a general description of the location of the site relative to major transportation routes and communities. D. Description of Stormwater Controls. The Permittee shall document all control measures the Permittee implements. If the Permittee implements or plans control measures that are not listed above, the Permittee shall include descriptions of these controls in the SWPPP. [Minn. R. 7090]. [Minn. R. 7090]
	5.21.109	The SWPPP shall be developed and implemented within 180 days after permit issuance and shall be available to the MPCA upon request. [Minn. R. 7090]
	5.21.110	**Stormwater Control Measures**. [Minn. R. 7000]
	5.21.111	The Permittee shall design and implement all stormwater control measures, including BMPs, to reduce or eliminate contact or exposure of pollutants to stormwater, to prevent erosion, control sediment and manage runoff, or remove pollutants from stormwater prior to discharge from the facility. [Minn. R. 7090]
	5.21.112	**Good Housekeeping**. [Minn. R. 7000]
	5.21.113	The Permittee shall employ good housekeeping practices to: A. Keep exposed areas that may contribute pollutants to stormwater sufficiently clean to reduce or eliminate contaminated stormwater runoff; and B. Remove and properly dispose of significant materials that have been tracked off-site within 72

		hours of discovery In addition, the Permittee shall identify and manage all on-site sources of dust to minimize stormwater contamination from the deposition of dust on areas exposed to precipitation. [Minn. R. 7090]
	5.21.114	**Salt Storage, Use, and Management at the Facility**. [Minn. R. 7000]
	5.21.115	The Permittees should implement the following BMPs if salt piles are present at the facility: A. Cover salt piles or store the salt piles indoors; B. Minimize the use of salt or other de-icing materials by using the proper equipment, material, and application rates; C. Implement practices to reduce exposure resulting from adding or removing material from the salt piles (e.g., sweeping, diversions, containment); and D. Document within the SWPPP the location of any storage piles containing salt stored outside. [Minn. R. 7090]
	5.21.116	**Erosion Prevention & Sediment Control**. [Minn. R. 7000]
	5.21.117	The Permittee shall identify areas at the facility that, due to topography, land disturbance (e.g. construction, grading, landscaping), or other factors, have potential for soil erosion. In those areas, the Permittee shall implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site erosion and reduce sediment loads in stormwater discharges. [Minn. R. 7090]
	5.21.118	**Chemical Additive Use**. [Minn. R. 7000]
	5.21.119	If the Permittee intends to use polymers, flocculants, or other sedimentation treatment chemicals at the facility, the Permittee shall comply with the following minimum requirements: A. The Permittees must use conventional erosion and sediment controls prior to chemical addition to ensure effective treatment; B. Chemicals may only be applied where treated stormwater flows to a sediment control system that allows for filtration or settlement of the floc prior to discharge; C. Chemicals must be selected that are appropriately suited to the types of soils likely to be exposed to stormwater runoff at the facility, and to the expected turbidity, pH, and flow rate of stormwater flowing into the chemical treatment system; and D. Use chemicals in accordance with standard engineering practices, and with dosing specifications and sediment removal design specifications of the manufacturer or chemical supplier. [Minn. R. 7090]
	5.21.120	**Management of Runoff**. [Minn. R. 7000]
	5.21.121	If treatment of stormwater (e.g. chemical or physical systems, oil and water separators, artificial wetlands) is necessary to protect water quality, the Permittee shall describe the type and location of treatment the Permittee uses. Where practical, the Permittee shall use passive and/or active treatment of stormwater runoff. The Permittee may discharge treated runoff as a stormwater source regulated under this permit provided the discharge does not combine with discharges subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR pt. 440). [Minn. R. 7000]
	5.21.122	**Facility Inspection Requirements**. [Minn. R. 7000]
	5.21.123	The Permittee shall conduct at least one inspection per reporting period while stormwater is discharging from the site. If the facility is inactive and unstaffed, temporarily inactive and unstaffed, or a site is undergoing reclamation, the Permittee does not have to do quarterly facility inspections. The Permittee shall inspect the site when the Permittee has reason to believe that severe weather or natural disasters may damage stormwater control measures or increase discharges. If circumstances change and the facility becomes active and/or staffed, this exception no longer applies and compliance with the quarterly inspection requirements in this permit must begin immediately.

		The MPCA retains the authority to revoke this exception where it is determined that the discharge causes, has the reasonable potential to cause, or contributes to an in-stream excursion above an applicable water quality standard, including designated uses. [Minn. R. 7090]
	5.21.124	If a facility is inactive and unstaffed, quarterly facility inspections are not required as long as there are no industrial materials or activities exposed to stormwater. However, the Permittee shall include the following in the SWPPP: A. BMP implementation that assures adequate protection of all waters receiving industrial stormwater discharges from the facility during the months the facility is inactive and unstaffed and; B. Which months the facility was inactive and unstaffed. [Minn. R. 7090]
	5.21.125	All facility inspections must include the following: A. An evaluation of the facility to determine that the SWPPP accurately reflects site conditions. At a minimum, the Permittee shall inspect storage tank areas, waste disposal areas, maintenance areas, loading/unloading areas, and raw material, intermediate product, by-product and final product storage areas; B. An evaluation of all structural and non-structural BMPs to determine effectiveness and proper function; C. An evaluation of the facility to determine whether there are new exposed significant materials or activities at the site since completion of the SWPPP; and D. During an inspection conducted during a runoff event, an evaluation of the stormwater runoff to determine discoloration or if other contaminants are visible in the runoff (e.g. oil & grease). [Minn. R. 7090]
	5.21.126	The Permittee shall document all inspections and the following information must be stored with the SWPPP: A. Inspection date (i.e. mm/dd/yyyy), time, and weather conditions; B. Inspector name; C. Inspection findings; and D. A description of any necessary corrective actions and a schedule for corrective action completion. [Minn. R. 7090]
	5.21.127	If conditions are observed at the site that require changes in the SWPPP, such changes shall be made to the SWPPP prior to submission of the annual report for that calendar year. [Minn. R. 7090]
	5.21.128	If the findings of a site inspection indicate that BMPs are not meeting the objectives as identified above, corrective actions shall be initiated within thirty days and the BMP restored to full operation as soon as conditions allow. [Minn. R. 7090]
	5.21.129	**Maintenance Requirements**. [Minn. R. 7000]
	5.21.130	BMP Maintenance. [Minn. R. 7000]
	5.21.131	The Permittee shall maintain all stormwater BMPs at the facility, to ensure BMP effectiveness. A. The Permittee shall develop a schedule for preventive maintenance of all stormwater BMPs, and store the schedule with the SWPPP; B. If the Permittee identifies BMPs that are not functioning properly, the Permittee shall replace, maintain, or repair the BMPs within 7 calendar days of discovery. If the Permittee cannot complete BMP replacement, maintenance, or repair within 7 calendar days, the Permittee shall implement effective backup BMPs within 48 hours of discovery, and maintain the backup BMPs until the Permittee restores the effectiveness of the original BMPs. The Permittee shall document the justification for an extended replacement, maintenance, or repair schedule of the failed BMPs, and store it with the SWPPP; and C. The Permittee shall record dates of maintenance and repairs. The Permittee shall store these records with the SWPPP. [Minn. R. 7090]
	5.21.132	Equipment Preventive Maintenance. [Minn. R. 7000]
	5.21.133	The Permittee shall develop and implement a preventive maintenance program and store the information with the SWPPP. The program must require regular inspection, maintenance, and repair of industrial equipment and systems. The inspections must identify conditions that could

		cause breakdowns or failures, which may result in leaks, spills, and other releases (e.g. hydraulic leaks, torn bag-house filters, etc.), and the discharge of pollutants to stormwater. The preventive maintenance program may incorporate, by reference, a separate Operation and Maintenance Manual (or equivalent), as long as it addresses the items the preventive maintenance program requires above. [Minn. R. 7090]
	5.21.134	**Spill Prevention and Response Requirements**. [Minn. R. 7000]
	5.21.135	The Permittee shall develop and implement a spill prevention and response procedure. If the facility already has a separate plan (e.g. Prevention and Response Plan as required by Minn. Stat. ch. 115E, or Spill Prevention Control and Countermeasure (SPCC) Plan as required by Federal Law), that Permittee can incorporate the plan by reference into the SWPPP. [Minn. R. 7090]
	5.21.136	The Permittee shall ensure the use of infiltration is not part of a spill containment plan. This includes spill plans required under Federal Spill Prevention Containment and Control (SPCC) requirements or Minn. Stat. ch. 115E "The Spill Bill.". [Minn. R. 7090]
	5.21.137	The Permittee shall ensure the use of a pond is not part of a spill containment plan, including spill plans required under Federal Spill Prevention Containment and Control (SPCC requirements or Minn. Stat. ch. 115E), unless appropriate controls are in place to contain the spill. If the Permittee uses a pond as part of a spill containment plan, the pond must have a chemically compatible liner for chemical spills that the Permittee expects to enter the pond and must have outlet controls to contain a spill. A plan must also be in place to clean up a spill so that the pond will not continue to be a source of spilled pollutants. The Permittee shall document evaluations with the SWPPP. [Minn. R. 7090]
	5.21.138	**Employee Training Program**. [Minn. R. 7000]
	5.21.139	The Permittee shall conduct training at active and temporarily inactive sites. The Permittee shall document all training regardless of site type in the facility's SWPPP. [Minn. R. 7090]
	5.21.140	The Permittee shall develop and implement a training program for employees. Training must cover stormwater control measures, components and goals of the SWPPP, monitoring procedures, and other applicable requirements of the permit. The facility is inactive and there are no employees currently staffed on site. This requirement does not apply to the facility unless the site becomes staffed. The program must include a training schedule that includes training at least annually. Training must correlate with the job function of the employee. At a minimum, the Permittee shall ensure that the following individuals receive training: A. Employee(s) responsible for writing, revising, and implementing the SWPPP; B. Employee(s) responsible for installing, inspecting, maintaining, and repairing BMPs; C. Employee(s) whose work involves the regulated industrial activity, including but not limited to loading/unloading areas, processing areas, waste and fluid management areas, fueling areas, and vehicle maintenance areas; and D. Employee(s) who conduct stormwater discharge monitoring. [Minn. R. 7090]
	5.21.141	The Permittee shall maintain training records including: A. The trainer's name and trainer's organization (internal or external); B. The names (printed first and last) of the employee(s) and date(s) the employee(s) received training; and C. A detailed description of the training provided to each employee. [Minn. R. 7090]
	5.21.142	The Permittee shall maintain the training records either in the SWPPP, or in a separate record stored with the SWPPP, for at least three years. [Minn. R. 7090]
	5.21.143	**Benchmark Monitoring Requirements**. [Minn. R. 7000]
	5.21.144	Monitoring and reporting requirements in this part do not apply to unstaffed inactive and temporarily inactive facilities or sites undergoing reclamation. [Minn. R. 7090]
	5.21.145	The Permittee shall monitor each benchmark monitoring location for the parameters and at the frequency identified in the limits and monitoring requirements specified for the Surface Discharge Stormwater, Non-Specific Runoff Station. [Minn. R. 7090]

	5.21.146	Specified parameters shall be sampled on a calendar quarter basis beginning the first full calendar quarter following permit issuance. Each quarterly sample may be collected at any time during the calendar quarter. [Minn. R. 7090]
	5.21.147	The Permittee shall comply with the benchmark monitoring procedures and sample collection methods in accordance with the Benchmark Monitoring Fact Sheet on the following website: https://www.pca.state.mn.us/business-with-us/industrial-stormwater. [Minn. R. 7090]
	5.21.148	**Records**. [Minn. R. 7000]
	5.21.149	The SWPPP shall be retained for the duration of the permit. A copy of the SWPPP shall remain on the permitted site whenever Permittee staff is on the site and be available upon request. The Permittee shall maintain the following records for the period of permit coverage: A. Dates and findings of inspections; B. Completed corrective actions; C. Documentation of all changes to the SWPPP; and D. A copy of all annual reports. [Minn. R. 7090]
	5.21.150	**Reporting**. [Minn. R. 7000]
	5.21.151	The Permittee shall submit a stormwater annual report : Due annually, by the 31st of March of each year following permit issuance. The Permittee shall submit the Annual Report in a format determined by the MPCA. [Minn. R. 7090]
	5.21.152	The Annual Report must cover those portions of the previous calendar year the Permittee had authorization to discharge industrial stormwater. The Annual Report must include, at a minimum, the following information: A. A summary of inspection dates, findings, and any BMP maintenance the Permittee conducted during the course of the reporting year; B. The results of any inspection requirements involving oil and grease, as described in the Sector-Specific Requirements section of this permit, if applicable; C. A confirmation that the SWPPP accurately reflects facility conditions; D. A confirmation that newly-exposed significant materials (if any) are identified and that the Permittee modifies the SWPPP to address them; E. A confirmation that the Permittee conducts a review of impaired waters and that the Permittee modifies the SWPPP to address applicable permit requirements of the Stormwater Pollution Prevention Plan and Benchmark Monitoring Requirements sections of this permit, if necessary; F. A confirmation that the Permittee meets the review requirements of USEPA-approved TMDLs that may apply to the facility; G. A description of any SWPPP modification the Permittee makes in accordance with the Stormwater Pollution Prevention Plan section of this permit, including any information supporting the use of a monitoring waiver outlined in the Benchmark Monitoring Requirements Section of this permit; H. A list of all spills and leaks (as pursuant to Minn. Stat. 115.061) occurring at the facility during the reporting year; and I. If applicable, a summary of all facility mobile industrial activities. At a minimum, the summary must include a description (including SIC code and/or narrative activity), locations of the mobile industrial activity (including latitude and longitude coordinates), and length of time of the mobile industrial activity occurrence(s). [Minn. R. 7090]
	5.21.153	**Industrial Stormwater Ponds and Infiltration Systems**. [Minn. R. 7000]
	5.21.154	Sector G industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. Stormwater ponds/sedimentation basins shall be designed by a registered professional engineer and installed under the direct supervision of a registered professional engineer. If a new stormwater pond/sedimentation basin will be constructed, the Permittee shall follow the guidance located on the website at: https://www.pca.state.mn.us/business-with-us/industrial-stormwater. [Minn. R. 7090]
	5.21.155	**Notification**. [Minn. R. 7000]

	5.21.156	If the Permittee has an industrial stormwater discharge and directly discharges into a regulated Municipal Separate Storm Sewer System (MS4), the Permittee shall notify the MS4 operator that they are discharging industrial stormwater into their storm sewer system. [Minn. R. 7090]
	5.21.157	**No Exposure**. [Minn. R. 7000]
	5.21.158	"No exposure" means that all industrial materials or activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, or waste product. [Minn. R. 7090.80, 9]
	5.21.159	A facility that meets the eligibility requirements for the No Exposure Exclusion requirements outlined below must submit an application through e-Services for No Exposure to the MPCA in accordance with Minn. R. 7090.3060. Directions to acquire a No Exposure Exclusion can be found on the MPCA website at https://www.pca.state.mn.us/business-with-us/industrial-stormwater. [Minn. R. 7090.3060]
	5.21.160	This exclusion is for facilities where all industrial materials or activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. A facility must meet the following conditions to qualify for this exclusion: A. Eliminate or obtain permit coverage for all prohibited non-stormwater discharges; B. As appropriate, inspect and eliminate all areas of past exposure (e.g., stains or debris resulting from previous runoff and exposure of stormwater to significant materials); C. Eliminate exposure of authorized non-stormwater discharges and all significant materials related to industrial activity (including but not limited to waste materials, dumpsters that are not empty/lidded or at loading docks); D. Eliminate exposure of all industrial activities or authorized non-stormwater discharges coming in contact with stormwater. Ensure that industrial equipment is properly maintained and free of leaks; and E. Eliminate exposure of significant materials through any direct or indirect pathway, such as from industrial activities that generate dust and particulates. [40 CFR 122.26(g), Minn. R. 7090.3060, Minn. R. 7090.3080]
	5.21.161	If a Permittee plans a change that will result in failure to maintain a condition of No Exposure at a facility, the Owner/Operator of a facility shall apply for a permit modification and receive permit authorization for the discharge of industrial stormwater before commencing the change or the facility may apply for coverage under the Industrial Stormwater General Permit. [Minn. R. 7090.3060, Minn. R. 7090.3060, 5]
	5.21.162	**Definitions**. [Minn. R. 7000]
	5.21.163	"Inactive metal mining facility" means a site or portion of a site with past metal mining and/or milling activities but is not an active facility, and where the inactive portion does not have active mining permit coverage issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable Owner/Operator. [Minn. R. 7090]
	5.21.164	"Temporarily inactive metal mining facility" means a site or portion of a site with past metal mining and/or milling activities but currently are not being actively undertaken, and the facility has active mining permit coverage issued by the applicable State or Federal agency. [Minn. R. 7000]
		Total Facility Requirements (NPDES/SDS)
	5.22.165	**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]
	5.22.166	**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]
	5.22.167	**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)]
	5.22.168	**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)]
	5.22.169	**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]
	5.22.170	**Property Rights.** This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
	5.22.171	**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)]
	5.22.172	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)]
	5.22.173	**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)]
	5.22.174	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)]
	5.22.175	**Severability.** The provisions of this permit are severable and, if any provisions of this permit or the application of any provision of this permit to any circumstance are held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. [Minn. R. 7001]
	5.22.176	**Compliance with Other Rules and Statutes.** 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]
	5.22.177	**Inspection and Entry.** 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)]
	5.22.178	**Control Users.** 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)]
	5.22.179	**Sampling**. [Minn. R. 7001]
	5.22.180	**Representative Sampling.** 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)]

	5.22.181	**Additional Sampling.** 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)]
	5.22.182	**Certified/Accredited Laboratory.** 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]
	5.22.183	**Sample Preservation and Procedure.** 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]
	5.22.184	**Equipment Calibration.** 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 & C)]
	5.22.185	**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)]
	5.22.186	**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)]
	5.22.187	**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. 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)]
	5.22.188	**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)]
	5.22.189	**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 design drawings and specifications, and engineering studies submitted as part of a permit application or by permit conditions. [Minn. R. 7001.0540]
	5.22.190	**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)]
	5.22.191	**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)]
	5.22.192	**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]

	5.22.193	**Noncompliance and Enforcement**. [Minn. R. 7001]
	5.22.194	**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)]
	5.22.195	**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]
	5.22.196	**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)]
	5.22.197	**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)]
	5.22.198	**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(I); and F. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]

	5.22.199	**Release**. [Minn. R. 7001]
	5.22.200	**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]
	5.22.201	**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]
	5.22.202	**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/business-with-us/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]
	5.22.203	**Bypass**. [Minn. R. 7001]
	5.22.204	**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)]
	5.22.205	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)i, Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]
	5.22.206	**Operation and Maintenance**. [Minn. R. 7001]
	5.22.207	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)]
	5.22.208	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)]
	5.22.209	**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]
	5.22.210	**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)]
	5.22.211	**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)]
	5.22.212	**Changes to the Facility or Permit**. [Minn. R. 7001]
	5.22.213	**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]
	5.22.214	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]
	5.22.215	**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)]
	5.22.216	**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/business-with-us/wastewater-permit-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]
	5.22.217	**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]
	5.22.218	**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)i]
	5.22.219	**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)]
	5.22.220	**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]
	5.22.221	**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]
	5.22.222	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]

6. Submittal action summary

GW 001	**Well, Upgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.1.1	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)]
GW 002	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.2.1	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)]
GW 003	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.3.1	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)]
GW 004	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.4.1	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)]
GW 005	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.5.1	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)]
GW 006	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.6.1	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)]
GW 007	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.7.1	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)]
GW 008	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements

	6.8.1	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)]
GW 009	**Well, Upgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.9.1	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)], Phases: Phase 2
GW 010	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.10.1	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)], Phases: Phase 2
GW 011	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.11.1	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)], Phases: Phase 2
SD 001	**Stormwater, Non-specific Runoff**	
		Facility Specific Limit and Monitoring Requirements
	6.12.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
WS 001	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.13.1	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)]
MN0067962	**Cliffs Erie-Taconite Harbor Dock**	
		Special Requirements
	6.14.1	The Permittee shall submit a ground water monitoring well installation plan : Due by 90 days after permit issuance for three new groundwater monitoring wells. The plan shall include the following elements, at a minimum: A. A map of proposed monitoring well locations; and B. Estimated monitoring well construction specifications. [Minn. R. 7001]
	6.14.2	The Permittee shall submit an annual report : Due annually, by the 1st of February for the preceding calendar year. The report must include summary evaluation reports and specific annual reporting requirements for the closed ash landfill. [Minn. R. 7001]
	6.14.3	The post closure care plan (PCCP) submitted in November 2001 and amended in December 2007 shall be amended to reflect the changes made in this reissuance of the facility's

		NPDES/SDS permit. The Permittee shall submit a plan : Due by 60 days after permit issuance. [Minn. R. 7001]
		Industrial Pond System
	6.15.4	The Permittee shall submit a report : Due by 180 days prior to permit expiration. The report shall describe the findings of the inspection of the Leachate Collection Pond, related conveyances, and appurtenances to the pond system at the permitted facility. [Minn. R. 7001]
	6.15.5	Based on the inspection, the Permittee shall certify to the MPCA : Due by the end of each calendar five years following permit issuance that the pond system maintains structural integrity, complete containment, and compliance with performance standards in the Stabilization Pond Systems Operations, Maintenance, Management (2013) or most recent version. [Minn. R. 7001]
		Industrial Stormwater Sector G: Metal Mining (Ore Mining and Dressing)
	6.16.6	The Permittee shall submit a stormwater annual report : Due annually, by the 31st of March of each year following permit issuance. The Permittee shall submit the Annual Report in a format determined by the MPCA. [Minn. R. 7090]
		Total Facility Requirements (NPDES/SDS)
	6.17.7	**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]

7. Limits and monitoring

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 001 Aldinger Well	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Arsenic, Dissolved (as As)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Boron, Dissolved (as B)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 001 Aldinger Well	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 001 Aldinger Well	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 001 Aldinger Well	Manganese, Dissolved (as Mn)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Selenium, Dissolved (as Se)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 001 Aldinger Well	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 001 Aldinger Well	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Aldinger Well	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 001 Aldinger Well	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 002 MW 101	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 002 MW 101	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 002 MW 101	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 002 MW 101	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 002 MW 101	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 MW 101	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 002 MW 101	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 003 MW 102	Boron, Dissolved (as B)						Monitor only. calendar month	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
							max intervention limit					exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 003 MW 102	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Manganese, Dissolved (as Mn)						Monitor only. calendar month	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
							max intervention limit					must take action as described in the Special Requirements Chapter of the permit.
GW 003 MW 102	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 003 MW 102	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 003 MW 102	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 MW 102	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 003 MW 102	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 004 MW 103	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 004 MW 103	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 004 MW 103	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 004 MW 103	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 004 MW 103	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 004 MW 103	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 004 MW 103	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 004 MW 103	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 005 MW 104	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												described in the Special Requirements Chapter of the permit.
GW 005 MW 104	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 005 MW 104	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 005 MW 104	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 005 MW 104	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 005 MW 104	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 005 MW 104	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 005 MW 104	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 005 MW 104	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 005 MW 104	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 005 MW 104	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 005 MW 104	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 006 MW 105	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 006 MW 105	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 006 MW 105	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 006 MW 105	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 006 MW 105	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 006 MW 105	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 006 MW 105	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 006 MW 105	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 006 MW 105	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 006 MW 105	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 006 MW 105	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 006 MW 105	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 007 MW 106	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 007 MW 106	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 007 MW 106	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 007 MW 106	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 007 MW 106	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 007 MW 106	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 007 MW 106	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												not required, leave the boxes blank on the DMR for this parameter.
GW 007 MW 106	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 007 MW 106	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 007 MW 106	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 007 MW 106	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 008 MW-30D	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 008 MW-30D	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 008 MW-30D	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 008 MW-30D	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 008 MW-30D	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 008 MW-30D	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 008 MW-30D	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												not required, leave the boxes blank on the DMR for this parameter.
GW 008 MW-30D	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 008 MW-30D	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 008 MW-30D	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 008 MW-30D	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Arsenic, Dissolved (as As)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Boron, Dissolved (as B)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 009 New Upgradient Well Phase 2	Manganese, Dissolved (as Mn)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Selenium, Dissolved (as Se)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 009 New Upgradient Well Phase 2	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	.Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 009 New Upgradient Well Phase 2	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 010 New Downgradient Well Phase 2	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 010 New Downgradient Well Phase 2	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 010 New Downgradient Well Phase 2	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 010 New Downgradient Well Phase 2	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 010 New Downgradient Well Phase 2	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 010 New Downgradient Well Phase 2	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Arsenic, Dissolved (as As)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 2.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 011 New Downgradient Well Phase 2	Boron, Dissolved (as B)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 125 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 011 New Downgradient Well Phase 2	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Magnesium, Dissolved (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Manganese, Dissolved (as Mn)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 25 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
GW 011 New Downgradient Well Phase 2	Molybdenum, Dissolved (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Selenium, Dissolved (as Se)						Monitor only. calendar month max intervention limit	micrograms per liter	once per month	Grab	Apr, Jul, Oct	The intervention limit is 7.5 ug/L. If this limit is exceeded, the Permittee must take action as described in the Special Requirements Chapter of the permit.
GW 011 New Downgradient Well Phase 2	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
												not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 011 New Downgradient Well Phase 2	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
GW 011 New Downgradient Well Phase 2	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
SD 001 72" culvert to Lake Superior	Boron, Total (as B)					Monitor only. calendar quarter average		micrograms per liter	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	Duration of Discharge		Monitor only. calendar month total	days per month					once per quarter	Calculation	Jan-Dec	
SD 001 72" culvert to Lake Superior	Flow		Monitor only. calendar quarter total	million gallons		Monitor only. calendar quarter average	Monitor only. calendar quarter maximum	million gallons per day	once per quarter	Estimate	Jan-Dec	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 001 72" culvert to Lake Superior	Iron, Dissolved (as Fe)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	pH				Monitor only. calendar quarter minimum		Monitor only. calendar quarter maximum	standard units	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	Solids, Total Dissolved (TDS)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	Solids, Total Suspended (TSS)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	Specific Conductance					Monitor only. calendar quarter average		micromhos per cm	once per quarter	Grab	Jan-Dec	
SD 001 72" culvert to Lake Superior	Sulfate, Total (as SO4)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Jan-Dec	
WS 001 Closed Ash Landfill Leachate	Alkalinity, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
WS 001 Closed Ash Landfill Leachate	Arsenic, Total (as As)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Boron, Total (as B)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Elevation of Water Level Relative to Ref Point		Monitor only. calendar month maximum	feet					once per week	Measurement	Mar-Oct	
WS 001 Closed Ash Landfill Leachate	Iron, Dissolved (as Fe)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
WS 001 Closed Ash Landfill Leachate	Lithium, Dissolved (as Li)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
WS 001 Closed Ash Landfill Leachate	Magnesium, Total (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
WS 001 Closed Ash Landfill Leachate	Manganese, Total (as Mn)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Mercury, Total (as Hg)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Molybdenum, Total (as Mo)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	pH, Field						Monitor only. calendar month maximum	standard units	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Selenium, Total (as Se)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Silver, Dissolved (as Ag)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
WS 001 Closed Ash Landfill Leachate	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Solids, Total Suspended (TSS)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
WS 001 Closed Ash Landfill Leachate	Strontium, Dissolved (as Sr)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
WS 001 Closed Ash Landfill Leachate	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	Sampling required only during periods of transport to the POTW.
WS 001 Closed Ash Landfill Leachate	Thallium, Dissolved (as Tl)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.
WS 001 Closed Ash Landfill Leachate	Vanadium, Dissolved (as V)						Monitor only. instantaneous maximum	micrograms per liter	once per year	Grab	Apr	Monitoring required once every two years. During years when monitoring is not required, leave the boxes blank on the DMR for this parameter.