



MINNESOTA POLLUTION CONTROL AGENCY

National Pollutant Discharge Elimination System/State Disposal System

MN0024571

Permittee: City of Red Wing
Facility name: Red Wing Wastewater Treatment Facility
Receiving water: Mississippi River - Class 2Bg, 3C, 4A, 4B, 5, 6 water
City: Red Wing **County:** Goodhue
Issuance date: March 1, 2020
Expiration date: February 28, 2025

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: *Paul Kimman*

This document has been electronically signed.

Paul Kimman
Supervisor
Southeast/Southwest Regional Unit
Municipal 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>

Or, by mail:

Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

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

Questions on this permit?

For eDMR and other permit reporting issues, contact:
Jennifer Satnik (jennifer.satnik@state.mn.us) 651-757-2692

For specific permit requirements, please refer to:

Steven Speltz (steven.speltz@state.mn.us) 507-206-2602

Wastewater Permit Program general questions, contact:

MPCA, 651-282-6143 or 800-657-3938.

Table of Contents

	Page
1. Permitted facility description	3
2. Location map of permitted facility	5
3. Flow diagram	6
4. Summary of stations and station locations	7
5. Permit requirements	8
6. Submittal action summary	35
7. Limits and monitoring.....	37

1. Permitted facility description

The Red Wing Red Wing Wastewater Treatment Facility (WWTP) (facility) is located at 1020 E 5th St, Red Wing, Minnesota 55066, Goodhue County.

This Class A Facility consists of:

The **sanitary sewer collection system** includes approximately 100 miles of municipally owned gravity sewer ranging from eight-inches to 30-inches, nine submersible lift stations and the associated forcemains. The collection area is essentially limited to the city limits, though there are rural areas within the city limits that utilize individual on-site systems. All sanitary sewers are separate sewers. Those sewers that were formerly combined were separated during the years 1980 to 2000.

The **industrial pretreatment plant** consists of a mechanical bar screen, manual bar screen, influent pump station, influent flow meter, chemical addition, a pH adjustment mixing tank, two flocculation mixing tanks, two primary clarifiers, two final clarifiers, effluent flow meter and effluent pumping. Wastewater is predominantly generated by the S.B. Foot Tanning Company, which is located immediately adjacent to the industrial pretreatment plant. Chemical addition includes a cationic polymer and ferric chloride to coagulate the suspended solids and caustic soda to adjust the pH. An anionic polymer is added upstream from the primary clarifiers to promote flocculation and settling. The primary objective is to reduce chromium levels in the wastewater before it is pumped to the Hay Creek Trail trunk sewer for conveyance to the main treatment facility. Settled sludge is pumped to two sludge storage tanks prior to being dewatered using a rotary press screen and is hauled to an industrial landfill for final disposal. A cationic polymer is used in the sludge dewatering process. Industrial pretreatment plant effluent is pumped to a trunk sewer leading to the main treatment facility and is treated and discharged with the flow from the main treatment facility. Basin 5, a dewatering pad, is located on the pretreatment campus, to be used for emergency dewatering of pretreatment sludge and as a receiving site for the contents from the city's sewer Vactor truck operations.

The **main lift station** is located approximately 2500 feet west of the main treatment facility and includes a mechanical fine screen and two vortex grit removal systems. Screenings are compressed and grit is washed and drained prior to disposal.

The **main treatment facility** is located on the bank of the Mississippi River and consists of two primary clarifiers, two trickling filters, ferric chloride feed system for phosphorus removal, two intermediate clarifiers, an intermediate pump station, two trains of rotating biological contactors (10 units), two final clarifiers, chlorine contact tank for disinfection, dechlorination with sulfur dioxide, and post aeration. Sludge is anaerobically digested in one primary and one secondary digester and then land applied to agricultural land as Class B biosolids. Sand drying beds are also available for storage; however, biosolids are typically land applied as a liquid. Methane generated during sludge digestion is used by a boiler to provide heat for the digestion process.

The main treatment facility has a continuous discharge (SD006) to the Mississippi River (Class 2Bg, 3C, 4A, 4B, 5, 6 water) and is designed to treat an average wet weather (AWW) flow of 4.0 million gallons per day (mgd) with a five-day biochemical oxygen demand concentration of 156 milligrams per liter (mg/L) and a total suspended solids concentration of 145 mg/L. There are no other outfalls or bypasses at the main treatment facility or in the collection system.

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.

Permit issued: March 1, 2020
Permit expires: February 28, 2025

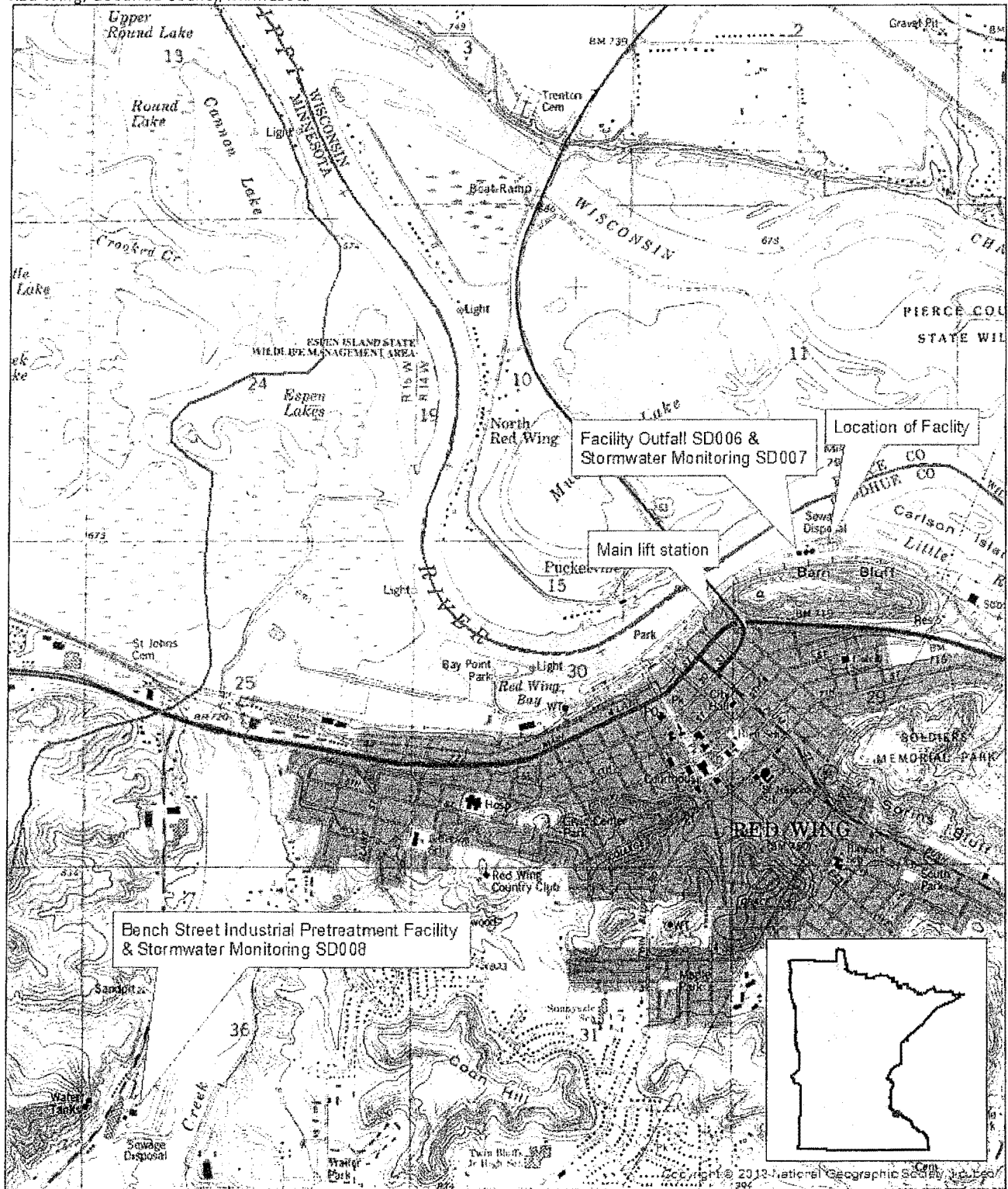
MN0024571
Page 4 of 41

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

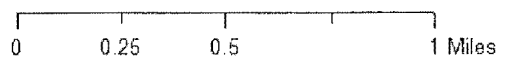
Any point source discharger of sewage, industrial, or other wastes for which a National Pollutant Discharge Elimination System (NPDES) permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue 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
Topographic Map of Permitted Facility

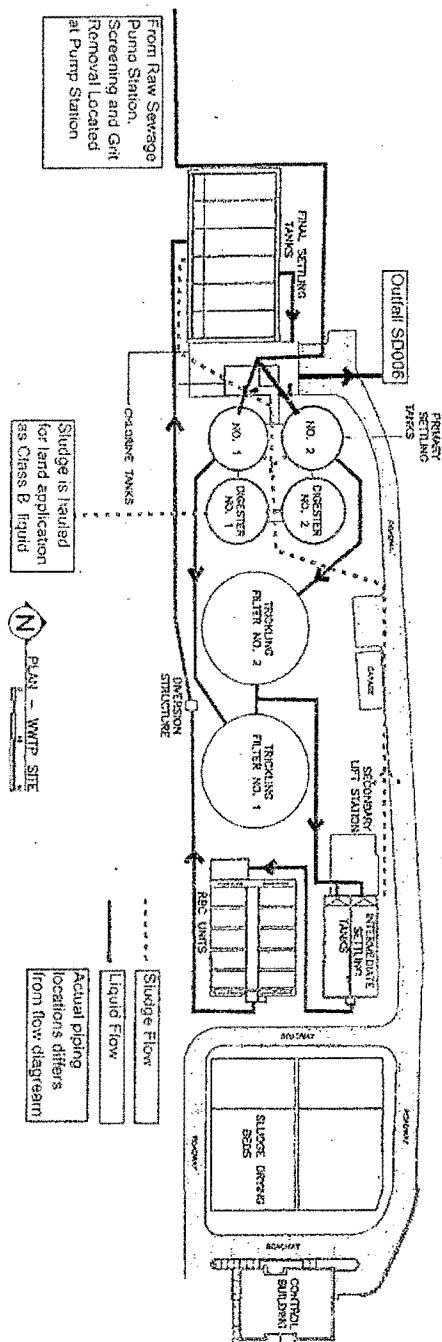
MN0024571, Red Wing Wastewater Treatment Facility
T113N, R14W, Section 29
Red Wing, Goodhue County, Minnesota



Map produced by: MPCA Staff, 6/20/2019
Scale: 1:24,000



3. Flow diagram



Sludge Flow
 Liquid Flow

Actual piping locations differs from flow diagram

4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
SD006	Effluent To Surface Water	Total Facility Discharge	T113N, R14W, S29, NW Quarter
SD007	Stormwater, Non-specific Runoff	Stormwater Discharge	T113N, R14W, S29, NW Quarter
SD008	Stormwater, Non-specific Runoff	Stormwater Discharge	T113N, R14W, S36, SW Quarter
WS001	Influent Waste	Influent Waste Stream	T113N, R14W, S29, NW Quarter

5. Permit requirements

SD006	Effluent To Surface Water	
Surface Discharge: Class A Major Facility Effluent 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		Grab and composite samples for Station SD006 shall be taken at a point representative of the wastewater treatment facility discharge to the Mississippi River. [Minn. R. 7001.0150, subp. 2(B)]
5.1.4		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)]
Acute Toxicity Requirements		
5.2.5		General Requirements. [Minn. R. 7001]
5.2.6		This permit does not include an acute whole effluent toxicity limit; however the facility has a whole effluent toxicity testing monitoring requirement and is required to conduct acute toxicity tests for Surface Discharge Station SD006. Results of acute toxicity tests will be evaluated against a monitoring threshold value of 0.9999 TUa. [Minn. R. 7053]
5.2.7		The Permittee shall submit annual acute toxicity test battery results: Due 180 calendar days after Permit Issuance Date annually and annually thereafter. [Minn. R. 7001]
5.2.8		Species and Procedural Requirements. [Minn. R. 7001]
5.2.9		Tests shall be conducted in accordance with procedures outlined in EPA-821-R-02-012 "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" - Fifth Edition (Acute Manual) and any revisions to the Manual. Any test that is begun with an effluent sample that is equal to or exceeds a total ammonia concentration of 5.0 mg/l may use the carbon dioxide-controlled atmosphere technique to control pH drift. [Minn. R. 7001]
5.2.10		Test organisms for each test battery shall include the fathead minnow (<i>Pimephales promelas</i>)-Method 2001.0, <i>Ceriodaphnia dubia</i> -Method 2002.0, and <i>Daphnia magna</i> -Method 2021.0 or any updates to those methods. [Minn. R. 7001]
5.2.11		Static renewal acute serial dilution tests of the effluent shall consist of a control, 12%, 25%, 50%, 75% and 100 percent effluent. [Minn. R. 7001]
5.2.12		All effluent samples shall be flow proportioned, 24-hour composite samples. Test solutions shall be renewed daily. Testing of the effluent shall begin within 36 hours of sample collection. Receiving water collected outside of the influence of discharge shall be used for dilution and controls. [Minn. R. 7001]
5.2.13		Any other circumstances not addressed in the previous requirements or that require deviation from that specified in the previous requirements shall first be approved by the MPCA. [Minn. R. 7001]
5.2.14		Quality Control and Report Submittals. [Minn. R. 7001]
5.2.15		Any test that does not meet quality control measures or results which the Permittee believes reflect an artifact of testing shall be repeated within two (2) weeks of notification from the lab regarding the test sample results. These reports shall contain information consistent with the report preparation section of the Acute Manual. The MPCA shall make the final determination regarding test validity. [Minn. R. 7001]
5.2.16		Positive Toxicity Result for WET. [Minn. R. 7001]
5.2.17		Should a test exceed 0.9999 TUa for whole effluent toxicity based on results from the most sensitive test species, the Permittee shall conduct two repeat test batteries on all species. The repeat tests are to be completed within forty-five (45) days after completion of the positive test. These tests will be

		used to determine if toxicity exceeding 0.9999 TUa remains present for any test species. For both retests, if no toxicity is present above 0.9999 TUa for any test species, the Permittee shall return to the test frequency specified by the permit. If either of the repeat test batteries indicate toxicity above 0.9999 TUa for any test species, the Permittee shall submit for MPCA review and approval a plan for conducting a Toxicity Reduction Evaluation (TRE) including the Facility Performance Review within 60 days after the toxicity discovery date. Upon approval of the TRE Plan, the Permittee shall implement the plan or subsequent amendments in its entirety. Any violations of the plan are violations of this permit. In addition, the Permittee shall provide quarterly reports, starting from the date of the TRE plan submittal. The quarterly reports shall include but not be limited to a complete description of all progress made towards the identification of the source(s) of toxicity, and the Permittee's plans for the removal of the toxicity. The TRE shall be consistent with EPA guidance or subsequent procedures approved by the MPCA in attempting to identify and remove the source of the toxicity. Routinely scheduled acute toxicity test batteries required in this permit section shall be reduced to annual testing for the duration of the TRE. At the conclusion of the TRE process, the Permittee must submit a request to the MPCA to discontinue the TRE. The MPCA shall review the request and decide whether or not the TRE will be discontinued. If the MPCA discontinues a TRE, the permit may be modified to set conditions to be met by the Permittee based on the TRE results. [Minn. R. 7001]
	5.2.18	Following successful completion of the TRE, the Permittee shall conduct semi-annual testing for the next five year permit cycle. [Minn. R. 7001]
	5.2.19	WET Data and Test Acceptability Criteria (TAC) Submittal. [Minn. R. 7001]
	5.2.20	All WET test data and TAC shall be submitted to the MPCA by the dates required by this section of the permit using the Minnesota Pollution Control Agency Acute Toxicity Test Report and associated instruction forms. Data not submitted on the correct form(s), or submitted incomplete, will be returned to the permittee and deemed incomplete until adequately submitted on the designated form (identified above). These are legal forms and must be signed and dated by the Permittee. Data should be submitted to: MPCA, Attn: WQ Submittals Center, 520 Lafayette Road North, St. Paul Minnesota 55155-4194. [Minn. R. 7001, Minn. R. 7041.1400]
	5.2.21	Permit Re-opening for WET. [Minn. R. 7001]
	5.2.22	Based on the results of the testing, the permit may be modified to include additional toxicity testing and a whole effluent toxicity limit. [Minn. R. 7001]
	5.2.23	Whole Effluent Toxicity Requirement Definitions. [Minn. R. 7001]
	5.2.24	"Acute Whole Effluent Toxicity (WET) Toxicity Test" is a static renewal test conducted on an exponentially diluted series of effluent. The purpose is to calculate the proportion of effluent that causes 50 percent mortality/immobility of aquatic organisms at 48 hours for Daphnia magna and Ceriodaphnia dubia or 96 hours for fathead minnows. An LC50/EC50 (lethal/immobile concentration) less than or equal to 100 percent effluent constitutes a positive for toxicity. [State Definitions]
	5.2.25	"Acute toxic unit (TUa)" is the reciprocal of the effluent dilution that causes the acute effect by the end of the acute exposure period. For example, a TUa equals (100% effluent)/(48 LC50/EC50 for Daphnia magna and Ceriodaphnia dubia or 96 hour LC50/EC50 for fathead minnows in %). [State Definitions]
	5.2.26	"Test" refers to an individual species. [State Definitions]
	5.2.27	"Test Battery" consists of WET testing of all test species for the specified test. For acute WET testing, all test species includes fathead minnows, Daphnia magna, and Ceriodaphnia dubia. [State Definitions]
		Priority Pollutant Requirements
	5.3.28	The Permittee shall monitor the effluent three times in the life of the permit for the following specified priority pollutants. Sampling events shall occur before the second, third, and fourth year following permit issuance and shall not be less than one year apart. Monitoring shall be for the organic priority pollutants identified under the volatile, acid, base/neutral and pesticide fractions using EPA methods 624, 625 and 608 (40 CFR Part 136, October 25, 1984) as

		<p>listed in Table II of 40 CFR Part 122, Appendix D or any updates to those methods.</p> <p>The following priority pollutant total metals shall also be monitored using EPA methods found in Table IB of the current version of 40 CFR Part 136: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc. In addition, the Permittee shall monitor for Total Cyanide, Total Phenolic Compounds and Hardness (total as CaCO₃) using methods approved in the most recent update of 40 CFR part 136. See the water quality standards for Class 2A/2B/2Bd waters for the required reporting limits for these analyses.</p> <p>Total Mercury shall be monitored by EPA method 1631E or the most recent update to this method, if not already required by the permit. [Minn. R. 7001]</p>
	5.3.29	The Permittee shall submit the first priority pollutant monitoring report: Due 1095 calendar days before Permit Expiration Date. (By two years after permit issuance date). [Minn. R. 7001]
	5.3.30	The Permittee shall submit the second priority pollutant monitoring report: Due 730 calendar days before Permit Expiration Date. (By three years after permit issuance date). [Minn. R. 7001]
	5.3.31	The Permittee shall submit the third priority pollutant monitoring report: Due 365 calendar days before Permit Expiration Date. (By four years after permit issuance date). [Minn. R. 7001]
		Facility Specific Requirements
	5.4.32	Cyanide Monitoring. [Minn. R. 7001]
	5.4.33	A reporting limit of 5.2 ug/L (micrograms per liter) must be used using free cyanide or amenable cyanide chemistry methods. [Minn. R. 7001]
	5.4.34	Chromium Monitoring. [Minn. R. 7001]
	5.4.35	Hexavalent chromium shall be monitored using an EPA approved method found in Table IB of the current version of 40 CFR Part 136.3. The reporting limit shall be no greater than 11 ug/L. [Minn. R. 7001]
	5.4.36	All Priority Pollutant samples should be collected using a 24-hour flow proportional composite; except for the 624 volatiles and 1631E mercury samples, which must be collected using the grab method. [Minn. R. 7001]
	5.4.37	Reporting limits for Priority Pollutant analyses shall be as close as analytically possible to the Class 2B chronic water quality standards. Total cyanide shall be monitored to the free cyanide water quality standard. [Minn. R. 7001]
SD007	Stormwater, Non-specific Runoff	
		Surface Discharge: Industrial Stormwater Section T Requirements
	5.5.1	The Permittee shall submit an annual DMR: Due by 21 days after the end of each calendar year 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 SD007 shall be collected at the north property boundary, representative of significant material impacts to stormwater at the treatment plant. [Minn. R. 7001.0150, subp. 2(B)]
	5.5.4	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)]
		Facility Specific Requirements
	5.6.5	The intervention limit for CBOD ₅ is 25 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit. [Minn. R. 7001]

	5.6.6	The intervention limit for TSS is 100 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit. [Minn. R. 7001]
SD008	Stormwater, Non-specific Runoff	
		Surface Discharge: Industrial Stormwater Section T Requirements
	5.7.1	The Permittee shall submit an annual DMR: Due by 21 days after the end of each calendar year 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 SD008 shall be collected at a stormwater inlet near the center of the pretreatment campus, representative of significant material impacts to stormwater. [Minn. R. 7001.0150, subp. 2(B)]
		Facility Specific Requirements
	5.8.4	The intervention limit for CBOD ₅ is 25 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit. [Minn. R. 7001]
	5.8.5	The intervention limit for TSS is 100 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit. [Minn. R. 7001]
WS001	Influent Waste	
		Waste Stream: Class A Major Facility Influent 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)]
	5.9.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.9.3	Grab and composite samples for Station WS001 shall be taken at a point representative of total influent flow to the system. [Minn. R. 7001.0150, subp. 2(B)]
	5.9.4	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)]
MN0024571	Red Wing WWTP	
		Surface Discharge Station General Requirements
	5.10.1	Analysis Requirements. [Minn. R. 7001]
	5.10.2	When required, Dissolved Oxygen, pH, Temperature and Total Residual Chlorine analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
	5.10.3	Representative Samples. [Minn. R. 7001]
	5.10.4	Samples and measurements required by this permit shall be representative of the monitored activity. [Minn. R. 7001]
	5.10.5	Surface Discharge Prohibitions. [Minn. R. 7001]
	5.10.6	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.10.7	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
	5.10.8	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.10.9	Winter Sampling Conditions. [Minn. R. 7001]

5.10.10	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
5.10.11	Chlorine Addition Requirements. [Minn. R. 7001]
5.10.12	If chlorine is added for any purpose, the Permittee shall monitor the discharge for Total Residual Chlorine once per day during chlorine usage. The Permittee shall report the monitoring data as a comment on the next submitted Discharge Monitoring Report for the affected station. The discharge shall not exceed a 0.038 mg/L Total Residual Chlorine limit. [Minn. R. 7001]
5.10.13	Phosphorus Limits and Monitoring Requirements. [Minn. R. 7001]
5.10.14	Phosphorus Calculation Definitions. [Minn. R. 7001]
5.10.15	"12-Month Moving Total" is a rolling total. To calculate, for each month multiply the total volume of effluent flow (MG) by the monthly average concentration and by a 3.785 conversion factor to get kg/month. Then add all of the monthly values (kg/mo) during the last twelve months, starting with the monthly total for the month of the current reporting period. [Minn. R. 7001]
5.10.16	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
5.10.17	Permittees are required to sample for TSS (grab sample) at the same time that Total/Dissolved Mercury samples are taken. Total Mercury, Dissolved Mercury, and TSS (grab sample) samples shall be collected via grab samples. All results shall be recorded on DMRs. [Minn. R. 7001]
5.10.18	Total and Dissolved Mercury samples shall be analyzed using the most current versions of EPA Method 1631 with clean techniques method 1669. Should another mercury analytical method that has a reportable quantitation level of <0.5 ng/L that allows for low-level sample characterization be approved by the EPA and certified by an MPCA recognized accreditation body, the method may be used in place of 1631/1669. [Minn. R. 7001]
5.10.19	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
5.10.20	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
	Waste Stream Station General Requirements
5.11.21	Analysis Requirements. [Minn. R. 7001]
5.11.22	When required, Dissolved Oxygen, pH, Temperature and Total Residual Chlorine analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
5.11.23	Representative Samples. [Minn. R. 7001]
5.11.24	Grab and composite samples shall be collected at a point representative of total influent flow to the system. [Minn. R. 7001]
5.11.25	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
5.11.26	Total Mercury samples shall be grab samples and shall be analyzed using EPA Method 1631 with clean techniques method 1669 and any revisions to those methods. Should another mercury analytical method that has a reportable quantitation level that allows for low-level sample characterization be approved by the EPA and certified by the Minnesota Department of Health, the Permittee is authorized to use that method. [Minn. R. 7001]
5.11.27	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
5.11.28	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
	Mercury Minimization Plan
5.12.29	The Permittee is required to complete and submit a Mercury Pollutant Minimization Plan (MMP) to the MPCA as detailed in this section. If the Permittee has previously submitted a MMP, it shall update its MMP and submit the updated MMP to the MPCA. The purpose of the MMP is to evaluate collection and treatment systems to determine possible sources of mercury as well as potential

		mercury reduction options. Guidelines for developing a MMP are detailed in this section. [Minn. R. 7001]
	5.12.30	The specific mercury monitoring requirements are detailed in the limits and monitoring section of this permit. Information gained through the MMP process can be used to reduce mercury concentrations. As part of its mercury control strategy, the Permittee should consider selecting activities based on the potential of those activities to reduce mercury loadings to the wastewater treatment facility. [Minn. R. 7001]
	5.12.31	The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days after permit issuance. [Minn. R. 7001]
	5.12.32	At a minimum, the MMP shall include the following: a. A summary of mercury influent and effluent concentrations and biosolids monitoring data using the most recent five years of monitoring data, if available. b. Identification of existing and potential sources of mercury concentrations and/or loading to the facility. As appropriate for your facility, you should consider residential, institutional, municipal, and commercial sources (such as dental clinics, hospitals, medical clinics, nursing homes, schools, laundries, and industries with potential for mercury contributions). You should also consider other influent mercury sources, such as stormwater inputs, ground water (inflow & infiltration) inputs, lift station components, and waste streams or sewer tributaries to the wastewater treatment facility. c. An evaluation of past and present WWTF operations to determine those operating procedures that maximize mercury removal. d. A summary of any mercury reduction activities implemented during the last five years. e. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]
		Mechanical System
	5.13.33	Bypass Structures. [Minn. R. 7001]
	5.13.34	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0030]
	5.13.35	Sanitary Sewer Extension Permit. [Minn. R. 7001]
	5.13.36	The Permittee may be required to obtain a Sanitary Sewer Extension Permit from the MPCA for any addition, extension or replacement to the sanitary sewer. If a sewer extension permit is required, construction may not begin until plans and specifications have been submitted and a written permit is granted except as allowed in Minn. Stat. 115.07, Subd. 3(b). [Minn. R. 7001.0020, D]
	5.13.37	Operator Certification. [Minn. R. 7001]
	5.13.38	The Permittee shall provide a Class A state certified operator who is in direct responsible charge of the operation, maintenance and testing functions required to ensure compliance with the terms and conditions of this permit. [Minn. R. 9400]
	5.13.39	The Permittee shall provide the appropriate number of operators with a Type IV certification to be responsible for the land application of biosolids or semisolids from commercial or industrial operations. [Minn. R. 7048]
	5.13.40	If the Permittee chooses to meet operator certification requirements through a contractual agreement, the Permittee shall provide a copy of the contract to the MPCA, WQ Submittals Center. The contract shall include the certified operator's name, certificate number, company name if appropriate, the period covered by the contract and provisions for renewal; the duties and responsibilities of the certified operator; the duties and responsibilities of the permittee; and provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date. [Minn. R. 9400]
	5.13.41	The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]

		Pretreatment: Delegated Requirements
	5.14.42	Pretreatment - Definitions. [Minn. R. 7049]
	5.14.43	For the purposes of these pretreatment requirements, "Significant Industrial User" (SIU) shall mean any industrial user (IU) which: <ul style="list-style-type: none"> a. is subject to Categorical Pretreatment Standards, as defined in Minnesota Rules 7049.0120, subpart 5; b. discharges 25,000 gallons per day or more of process wastewater, excluding sanitary, noncontact cooling or boiler blowdown wastewater, to the POTW; c. contributes a process wastewater containing five percent or more of the flow or load of any pollutant of concern to the POTW treatment plant; or d. is designated as significant by the Permittee on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement. [Minn. R. 7049]
	5.14.44	Exemption. [Minn. R. 7049]
	5.14.45	Industrial users qualifying as significant solely on the basis of criteria b. or c. above may be exempted from consideration as a SIU if the Permittee finds that they have no reasonable potential to adversely affect the POTW's operation or to violate pretreatment standards or requirements. [Minn. R. 7049]
	5.14.46	The Permittee shall notify the MPCA in writing of any Industrial User so exempted and provide justification for their exemption. [Minn. R. 7049]
	5.14.47	Pretreatment - Delegated Authority. [Minn. R. 7049]
	5.14.48	Under the authority of the General Pretreatment Regulations (40 CFR 403), the Permittee's pretreatment program was approved on July 18, 2003. The Permittee has been delegated authority to operate as the Publicly Owned Treatment Works (POTW) control authority under the General Pretreatment Regulations. The Permittee shall fully and effectively implement and operate the approved pretreatment program according to the legal authorities contained therein and the General Pretreatment Regulations. [Minn. R. 7049]
	5.14.49	In addition to the Prohibitions contained in the General Pretreatment Regulations and the approved program, the Permittee shall prohibit new discharges of non-contact cooling waters to the POTW unless there are no cost-effective alternatives. [Minn. R. 7049]
	5.14.50	Existing discharges of non-contact cooling water to the wastewater treatment facility shall be eliminated where elimination is cost effective, or where an infiltration/inflow analysis and sewer system evaluation survey indicate the need for such removal. [Minn. R. 7049]
	5.14.51	Pollutants of concern in the administration of the Permittee's pretreatment program shall be considered in the determination of the Significance of Industrial Users, monitoring of Significant Industrial Users, establishment of limitations on users, and communications with users. A pollutant of concern is a pollutant that is discharged, or may be discharged by an industrial user to the permittees treatment works and that is, or should be, of concern on the basis that it may cause interference or pass through as defined in Minnesota Rules 7049.0120, subparts 10 and 12. [Minn. R. 7049]
	5.14.52	Legal Authority. [Minn. R. 7049]
	5.14.53	The Permittee shall maintain the legal authority that allows it to fully implement its approved pretreatment program in conformance with the requirements of the General Pretreatment Regulation. [Minn. R. 7049]
	5.14.54	Industrial Users Inventory. [Minn. R. 7049]
	5.14.55	The Permittee shall update its inventory of Industrial Users at least annually and as needed to ensure that all SIUs are properly identified, characterized and categorized. The Permittee shall: <ul style="list-style-type: none"> a. identify Industrial Users which may be subject to the POTW pretreatment program; b. characterize the discharge of pollutants to the POTW by the Industrial User; and c. determine the applicable categories for industrial users subject to National Categorical Pretreatment Standards. [Minn. R. 7049]

5.14.56	Within 30 days of the designation of an Industrial User as significant, the Permittee shall notify the SIU of all applicable pretreatment standards and requirements. The Permittee shall also notify all Industrial Users of all applicable pretreatment standards and requirements, and the Industrial Users' obligation to comply with applicable requirements under Subtitles C and D of the Resource Conservation and Recovery Act (RCRA). [Minn. R. 7049]
5.14.57	Local Limits. [Minn. R. 7049]
5.14.58	The Permittee shall develop, maintain and enforce specific local limits to implement the prohibitions listed in Minnesota Rules 7049.0140. [Minn. R. 7049]
5.14.59	The Permittee shall evaluate the need to revise local limits to effectively implement these prohibitions at least once during the term of this permit. Prior to the expiration date of this permit, the permittee shall submit, for approval, a report on the evaluation. If the evaluation determines that a more restrictive local limit is needed, the permittee shall submit for approval a suggested schedule for amending the permittee's local limits. [Minn. R. 7049]
5.14.60	The evaluation shall include a pollutant mass balance for all pollutants of concern. The mass balance shall attempt to balance the source of the pollutants (Industrial Users and other sources), the measured headwork's loading of the pollutants and the fates of the pollutants (discharge, biosolids and others). The mass balance shall make use of all available and appropriate monitoring data. The permittee shall, for all pollutants of concern, obtain sufficient data to allow the permittee to evaluate the need for local limits and to set local limits if they are needed. Monitoring shall be done at a sensitivity adequate to evaluate the need for local limits and set local limits if needed. [Minn. R. 7049]
5.14.61	Permit Significant Industrial Users. [Minn. R. 7049]
5.14.62	The Permittee shall issue and reissue permits to all existing SIUs within 180 days of expiration of the existing SIU permit for existing SIUs, or identification of a new SIU. The permit shall contain at least the following: a. a statement of duration (no longer than five (5) years); b. a statement of nontransferability without prior approval by the POTW, and provision of a copy of the existing permit to the new owner or operator; c. discharge limits based on applicable prohibited discharges in Minnesota Wastewater Pretreatment Rules (Minn. R. 7049.0140), National Categorical Pretreatment Standards, and local limits and local discharge prohibitions; d. self-monitoring, sampling, reporting, notification and record keeping requirements, including an identification of the pollutants to be monitored, sampling location, sampling frequency and sample type; and e. a statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. [Minn. R. 7049]
5.14.63	The Permittee may not extend the compliance date beyond applicable federal deadlines in any compliance schedule. [Minn. R. 7049]
5.14.64	Compliance Monitoring and Inspections. [Minn. R. 7049]
5.14.65	The Permittee shall randomly sample and analyze the discharge from Industrial Users and conduct surveillance activities to identify, independent of information supplied by Industrial Users, noncompliance with pretreatment standards. The Permittee shall inspect and sample the discharge from each SIU at least once a year. [Minn. R. 7049]
5.14.66	The Permittee shall evaluate whether each SIU needs a plan to control spill and slug discharges as provided in Minnesota Rules 7049.0830 G. Where a control plan is determined to be needed, the Permittee shall require, in the permit issued to the industrial user, that the industrial user develop and implement such a plan. [Minn. R. 7049]
5.14.67	Industrial User Reports. [Minn. R. 7049]
5.14.68	The Permittee shall receive and analyze self-monitoring reports and other reports and notices submitted by Industrial Users in accordance with requirements contained in permits issued by the

		Permittee and in accordance with the General Pretreatment Regulation. [Minn. R. 7049]
	5.14.69	Enforcement Actions. [Minn. R. 7049]
	5.14.70	The Permittee shall investigate instances of noncompliance with pretreatment standards and requirements as indicated by reports submitted by Industrial Users, by information collected by the Permittee or by other means. [Minn. R. 7049]
	5.14.71	The Permittee shall collect samples, analyze data and compile information in a manner to ensure accuracy and admissibility in enforcement proceedings and judicial actions. [Minn. R. 7049]
	5.14.72	In instances of noncompliance, the Permittee shall take effective enforcement action in accordance with the approved enforcement response plan. [Minn. R. 7049]
	5.14.73	Data Management and Record Keeping. [Minn. R. 7049]
	5.14.74	The Permittee shall maintain records documenting pretreatment activities. These records shall contain an inventory of industrial users, characterization of discharges, compliance status, permit status, and records of enforcement actions. [Minn. R. 7049]
	5.14.75	The Permittee shall retain all records of monitoring activities and results for at least three (3) years and shall make the records available to EPA and the MPCA upon request. [Minn. R. 7049]
	5.14.76	Public Participation. [Minn. R. 7049]
	5.14.77	The Permittee shall comply with public participation requirements of 40 CFR 25 in the enforcement of national pretreatment standards. [Minn. R. 7049]
	5.14.78	The Permittee shall, once a year, publish the names of Industrial Users that were in significant noncompliance with pretreatment requirements, as defined in Minnesota Rules 7049.0120, subpart 25, any time during the previous twelve (12) months. [Minn. R. 7049]
	5.14.79	All industrial discharge data shall be made available to the public upon request. [Minn. R. 7049]
	5.14.80	Program Resources. [Minn. R. 7049]
	5.14.81	The Permittee shall acquire sufficient resources and qualified personnel to carry out the program implementation procedures described in this permit. [Minn. R. 7049]
	5.14.82	Program Modification. [Minn. R. 7049]
	5.14.83	The Permittee shall submit to the MPCA a statement of the basis for desired program modifications and a modified program description for all substantial modifications as defined in Minnesota Rules 7049.0980. The Permittee shall await formal approval from the MPCA before implementing substantial program modifications. [Minn. R. 7049]
	5.14.84	The Permittee shall notify the MPCA of non-substantial modifications to its pretreatment program at least 45 days prior to implementing the modification. [Minn. R. 7049]
	5.14.85	Non-substantial modifications are deemed approved unless the MPCA notifies the Permittee otherwise within 45 days. [Minn. R. 7049]
	5.14.86	Multijurisdictional Agreements. [Minn. R. 7049]
	5.14.87	The Permittee shall establish agreements with any additional contract cities requiring them to develop and adopt legal authority at least as stringent as the Permittee's, and carry out the specific responsibilities listed above in implementing the pretreatment program. [Minn. R. 7049]
	5.14.88	Notification Requirements. [Minn. R. 7049]
	5.14.89	The Permittee shall notify the MPCA of planned or actual changes in the discharges from SIUs which will require changes to the user's control document and which may affect the Permittee's effluent. [Minn. R. 7049]
	5.14.90	The Permittee shall supply the MPCA with information regarding the discharge, compliance status, or enforcement actions taken for any industrial user upon request. [Minn. R. 7049]
	5.14.91	Pretreatment Annual Report. [Minn. R. 7049]
	5.14.92	The Permittee shall submit a pretreatment annual report: Due by February 28 of each year following permit issuance. [Minn. R. 7049]
	5.14.93	The Permittee shall submit the pre-treatment report annually to the following address: MPCA Attn: WQ Submittals Center

		<p>520 Lafayette Road North St. Paul, Minnesota 55155-4194</p> <p>The report shall describe the Permittee's pretreatment activities during the previous calendar year and is due on February 28 of each year and shall contain at least the following information. [Minn. R. 7049]</p>
	5.14.94	<p>The Pretreatment Annual Report shall describe the pretreatment activities during the previous calendar year and shall contain the following lists:</p> <ul style="list-style-type: none"> a. An updated list of the Permittee's significant industrial users including their names, addresses, any applicable federal categorical standards, and a summary total of significant industrial users and categorical industrial users. b. A separate list of deletions from and additions to previously submitted lists of SIUs, with a brief explanation for each deletion. c. A list of SIUs with expired permits. [Minn. R. 7049]
	5.14.95	<p>The Pretreatment Annual Report shall contain the following descriptions:</p> <ul style="list-style-type: none"> a. A characterization of the compliance status of each SIU during the reporting year. The compliance characterization shall at least indicate status as follows: <ul style="list-style-type: none"> 1. no violations noted with discharge limits, and compliance with monitoring and reporting requirements is sufficient to determine compliance with discharge limitations; 2. violations were noted with discharge limits, or violations of monitoring and reporting requirements that may have impaired the Permittee's ability to determine compliance with discharge limitations were noted, but the noncompliance does not meet the definition of significant noncompliance as referenced below; 3. significant noncompliance (as defined by 40 CFR 403.8(f)(2)(vii)); or 4. status unknown. b. A description of the standards or requirements that were violated for SIUs that are out of compliance with pretreatment standards. For an SIU in significant noncompliance, the characterization shall note the reason for the significant violations (if known) and whether the SIU is on a compliance schedule. If the SIU is on a compliance schedule, the date of final compliance shall be noted in the report. c. A description of any upsets, interference, or pass through incidents at the POTW which the Permittee knows or suspects were caused by Industrial Users of the POTW system. The description shall include the reasons why the incidents occurred, the corrective actions taken, and the Industrial Users responsible, if known. [Minn. R. 7049]
	5.14.96	<p>The permittee shall, for all pollutants of concern, obtain sufficient data to allow the permittee to evaluate the need for local limits, and shall set local limits if they are needed. Monitoring shall be done at a sensitivity adequate to evaluate the need for local limits and set local limits if they are needed. [Minn. R. 7049]</p>
	5.14.97	<p>The Pretreatment Annual Report shall contain the following summaries:</p> <ul style="list-style-type: none"> a. A summary of the discharge monitoring data for each SIU for the reporting year. This summary shall include all available data and shall accurately represent the discharge by the user. b. A summary of the inspection and sampling activities conducted by the POTW during the reporting year to gather information and data regarding Industrial Users. The summary shall include identification of the Industrial Users subject to surveillance by the POTW and an indication of the type (inspection or sampling) and the number of surveillance activities performed. c. A summary of the enforcement actions by the POTW during the reporting year. The summary shall include the names and addresses of the Industrial Users that were the subject of enforcement action, the enforcement action taken, and whether the Industrial User has returned to compliance. d. A summary of the Permittee's pretreatment budget for the reporting year, including the cost of personnel, equipment and services employed in the pretreatment program. e. A summary of public participation activities to involve and inform the public. This shall include a

		copy of the annual publication of significant noncompliance, if such publication was needed to comply with 40 CFR 403.8(f) (2) (vii). [Minn. R. 7049]																																				
		Biosolids: Land Application																																				
	5.15.98	Authorization. [Minn. R. 7041]																																				
	5.15.99	This permit authorizes the Permittee to store and land apply domestic wastewater treatment biosolids in accordance with the provisions in this chapter and Minnesota Rules, ch. 7041. [Minn. R. 7041]																																				
	5.15.100	Permittees who prepare bulk biosolids shall obtain approval of the sites on which bulk biosolids are applied before they are applied unless they are Exceptional Quality Biosolids. Site application procedures are set forth in Minn. R. ch. 7041.0800. [Minn. R. 7041.0800]																																				
	5.15.101	Compliance Responsibility. [Minn. R. 7041]																																				
	5.15.102	The Permittee is responsible for ensuring that the applicable requirements in this chapter and Minn. R. ch. 7041 are met when biosolids are prepared, distributed, or applied to the land. [Minn. R. 7041]																																				
	5.15.103	Notification Requirements. [Minn. R. 7041]																																				
	5.15.104	The Permittee shall provide information needed to comply with the biosolids requirements of Minn. R. ch. 7041 to others who prepare or use the biosolids. [Minn. R. 7041]																																				
	5.15.105	Pollutant Limits. [Minn. R. 7041]																																				
	5.15.106	<p>Biosolids which are applied to the land shall not exceed the ceiling concentrations in Table 1 and shall not be applied so that the cumulative amounts of pollutant in Table 2 are exceeded.</p> <p>Table 1 Ceiling Concentrations (dry weight basis) Parameter in units mg/kg</p> <table border="0"> <tr><td>Arsenic</td><td>75</td></tr> <tr><td>Cadmium</td><td>85</td></tr> <tr><td>Copper</td><td>4300</td></tr> <tr><td>Lead</td><td>840</td></tr> <tr><td>Mercury</td><td>57</td></tr> <tr><td>Molybdenum</td><td>75</td></tr> <tr><td>Nickel</td><td>420</td></tr> <tr><td>Selenium</td><td>100</td></tr> <tr><td>Zinc</td><td>7500</td></tr> </table> <p>Table 2 Cumulative Loading Limits Parameter in units lbs/acre</p> <table border="0"> <tr><td>Arsenic</td><td>37</td></tr> <tr><td>Cadmium</td><td>35</td></tr> <tr><td>Copper</td><td>1339</td></tr> <tr><td>Lead</td><td>268</td></tr> <tr><td>Mercury</td><td>15</td></tr> <tr><td>Molybdenum</td><td>not established*</td></tr> <tr><td>Nickel</td><td>375</td></tr> <tr><td>Selenium</td><td>89</td></tr> <tr><td>Zinc</td><td>2500</td></tr> </table> <p>*The cumulative limit for molybdenum has not been established at the time of permit issuance. [Minn. R. 7041.1100]</p>	Arsenic	75	Cadmium	85	Copper	4300	Lead	840	Mercury	57	Molybdenum	75	Nickel	420	Selenium	100	Zinc	7500	Arsenic	37	Cadmium	35	Copper	1339	Lead	268	Mercury	15	Molybdenum	not established*	Nickel	375	Selenium	89	Zinc	2500
Arsenic	75																																					
Cadmium	85																																					
Copper	4300																																					
Lead	840																																					
Mercury	57																																					
Molybdenum	75																																					
Nickel	420																																					
Selenium	100																																					
Zinc	7500																																					
Arsenic	37																																					
Cadmium	35																																					
Copper	1339																																					
Lead	268																																					
Mercury	15																																					
Molybdenum	not established*																																					
Nickel	375																																					
Selenium	89																																					
Zinc	2500																																					
	5.15.107	Pathogen and Vector Attraction Reduction. [Minn. R. 7041]																																				
	5.15.108	Biosolids shall be processed, treated, or be incorporated or injected into the soil to meet one of the vector attraction reduction requirements in Minnesota Rules, pt. 7041.1400. [Minn. R. 7041.1400]																																				
	5.15.109	Biosolids shall be processed or treated by one of the alternatives in Minnesota Rules, pt. 7041.1300 to meet the Class A or Class B standards for the reduction of pathogens. When Class B biosolids are																																				

		applied to the land, the site restrictions in Minnesota Rules, pt. 7041.1300 shall also be met. [Minn. R. 7041.1300]															
5.15.110		<p>The minimum duration between application and harvest, grazing or public access to areas where Class B biosolids have been applied to the land is as follows:</p> <p>a. 14 months for food crops whose harvested parts may touch the soil/biosolids mixture (such as melons, squash, tomatoes, etc.), when biosolids are surface applied, incorporated or injected.</p> <p>b. 20 months or 38 months depending on the application method for food crops whose harvested parts grow in the soil (such as potatoes, carrots, onions, etc.). The 20 month time period is required when biosolids are surface applied or surface applied and incorporated after they have been on the soil surface for at least four (4) months. The 38 month time period is required when the biosolids are injected or surface applied and incorporated within four (4) months of application.</p> <p>c. 30 days for feed crops, other food crops (such as field corn, sweet corn, etc.), hay or fiber crops when biosolids are surface applied, incorporated or injected.</p> <p>d. 30 days for grazing of animals when biosolids are surface applied, incorporated or injected.</p> <p>e. One year where there is a high potential for public contact with the site, (such as a reclamation site located in populated areas, a construction site located in a city, turf farms, plant nurseries, etc.) and 30 days where there is low potential for public contact (such as agricultural land, forest, a reclamation site located in an unpopulated area, etc.) when biosolids are surface applied, incorporated, or injected. [Minn. R. 7041]</p>															
5.15.111		Management Practices. [Minn. R. 7041]															
5.15.112		The management practices for the land application of biosolids are described in detail in Minn. R. ch. 7041.1200 and shall be followed unless specified otherwise in a site approval letter or a permit issued by the MPCA. [Minn. R. 7041.1200]															
5.15.113		<p>Overall management requirements:</p> <p>a. Biosolids shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat.</p> <p>b. Biosolids shall not be applied to flooded, frozen or snow covered ground so that the biosolids enter wetlands or other waters of the state.</p> <p>c. Biosolids shall be applied at an agronomic rate unless specified otherwise by the MPCA in a permit.</p> <p>d. Biosolids shall not be applied within 33 feet of a wetland or waters of the state unless specified otherwise by the MPCA in a permit. [Minn. R. 7041]</p>															
5.15.114		Monitoring Requirements. [Minn. R. 7041]															
5.15.115		Representative samples of biosolids applied to the land shall be analyzed by methods specified in Minnesota Rule pt. 7041.3200 for the following parameters: arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, Kjeldahl nitrogen, ammonia nitrogen, total solids, volatile solids, phosphorus, potassium and pH. [Minn. R. 7041.3200]															
5.15.116		<p>At a minimum, biosolids shall be monitored at the frequencies specified in Table 3 for the parameters listed above, and any pathogen or vector attraction reduction requirements in Minn. R. pts. 7041.1300 and 7041.1400 if used to determine compliance with those parts.</p> <p>Table 3 Minimum Sampling Frequencies</p> <table border="1"> <thead> <tr> <th>Biosolids Applied* (metric tons/365-day period)</th> <th>Biosolids Applied* (tons/365-day period)</th> <th>Frequency (times/365-day period)</th> </tr> </thead> <tbody> <tr> <td>>0 but <290</td> <td>>0 but <320</td> <td>1</td> </tr> <tr> <td>>=290 but <1,500</td> <td>>=320 but <1,650</td> <td>4</td> </tr> <tr> <td>>=1,500 but <15,000</td> <td>>=1,650 but <16,500</td> <td>6</td> </tr> <tr> <td>>=15,000</td> <td>>=16,500</td> <td>12</td> </tr> </tbody> </table> <p>* Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a</p>	Biosolids Applied* (metric tons/365-day period)	Biosolids Applied* (tons/365-day period)	Frequency (times/365-day period)	>0 but <290	>0 but <320	1	>=290 but <1,500	>=320 but <1,650	4	>=1,500 but <15,000	>=1,650 but <16,500	6	>=15,000	>=16,500	12
Biosolids Applied* (metric tons/365-day period)	Biosolids Applied* (tons/365-day period)	Frequency (times/365-day period)															
>0 but <290	>0 but <320	1															
>=290 but <1,500	>=320 but <1,650	4															
>=1,500 but <15,000	>=1,650 but <16,500	6															
>=15,000	>=16,500	12															

		person who prepares biosolids that are sold or given away in a bag or other container for application to the land (dry weight basis). [Minn. R. 7041.1300, Minn. R. 7041.1400]																		
	5.15.117	<p>Representative samples of biosolids that are transferred to storage units and are stored for more than two years shall be analyzed by methods specified in Minnesota Rule pt. 7041.3200 for each cropping year they are stored for the following parameters: arsenic, cadmium, copper, lead, molybdenum, nickel, selenium, and zinc.</p> <p>Mercury is specifically NOT included in the stored biosolids analysis because of the short holding time [28 days] required between sampling and analysis. [Minn. R. 7041.3200]</p>																		
	5.15.118	<p>Increased sampling frequencies are specified for the parameters listed in Table 4. Sampling at a frequency at twice the minimum frequencies in Table 3 is required if concentrations listed in Table 4 are exceeded (based on the average of all analyses made during the previous cropping year).</p> <p>Table 4 Increased Frequency of Sampling</p> <p>Parameter (mg/kg dry weight basis)</p> <table border="0"> <tr><td>Arsenic</td><td>38</td></tr> <tr><td>Cadmium</td><td>43</td></tr> <tr><td>Copper</td><td>2150</td></tr> <tr><td>Lead</td><td>420</td></tr> <tr><td>Mercury</td><td>28</td></tr> <tr><td>Molybdenum</td><td>38</td></tr> <tr><td>Nickel</td><td>210</td></tr> <tr><td>Selenium</td><td>50</td></tr> <tr><td>Zinc</td><td>3750.</td></tr> </table> <p>[Minn. R. 7041]</p>	Arsenic	38	Cadmium	43	Copper	2150	Lead	420	Mercury	28	Molybdenum	38	Nickel	210	Selenium	50	Zinc	3750.
Arsenic	38																			
Cadmium	43																			
Copper	2150																			
Lead	420																			
Mercury	28																			
Molybdenum	38																			
Nickel	210																			
Selenium	50																			
Zinc	3750.																			
	5.15.119	Records. [Minn. R. 7041]																		
	5.15.120	The Permittee shall keep records of the information necessary to show compliance with pollutant concentrations and loadings, pathogen reduction requirements, vector attraction reduction requirements and management practices as specified in Minnesota Rules, pt. 7041.1600, as applicable to the quality of biosolids produced. [Minn. R. 7041.1600]																		
	5.15.121	Reporting Requirements. [Minn. R. 7041]																		
	5.15.122	The Permittee shall submit a biosolids annual report: Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]																		
	5.15.123	The permittee shall submit a Biosolids Annual Report by December 31 of each year for biosolids storage and/or transfer activities occurring during the cropping year previous to December 31. The report shall indicate whether or not biosolids were transferred and/or stored. If biosolids were transferred, the report shall describe how much was transferred, where it was transferred to, the name of the facility that accepted the transfer and the contact person at that facility. "Cropping year" means a year beginning on September 1 of the year prior to the growing season and ending August 31 the year the crop is harvested. For example, the 2012 cropping year began September 1, 2011, and ended August 31, 2012. [Minn. R. 7041]																		
	5.15.124	For biosolids that are stored for more than two years, the Biosolids Annual Report shall also include the analytical data from the representative sample of the biosolids generated during the cropping year. [Minn. R. 7041]																		
	5.15.125	The Permittee shall submit the Biosolids Annual Report to: MPCA Submittals Center, Minnesota Pollution Control Agency, 520 Lafayette Road North, St Paul Minnesota 55155-4194. [Minn. R. 7041]																		
	5.15.126	The Permittee shall notify the MPCA in writing when 90 percent or more of any of the cumulative pollutant loading rates listed for any Land Application Sites has been reached for a site. [Minn. R. 7041]																		
		Industrial Stormwater Sector T: Treatment Works																		

5.16.127	Authorization. [Minn. R. 7001]
5.16.128	This chapter authorizes the Permittee to discharge stormwater associated with industrial activity from domestic treatment works in accordance with the terms and conditions of this chapter. [Minn. R. 7090]
5.16.129	This permit, unless specifically authorized by another chapter, does not authorize the discharge of sewage, wash water, scrubber water, floor drains from process areas, spills, oils, hazardous substances, or equipment/vehicle cleaning and maintenance wastewaters to ditches, wetlands, or other surface waters of the state. [Minn. R. 7090]
5.16.130	Water Quality Standards. [Minn. R. 7001]
5.16.131	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 Minn. R. chs. 7050 and 7060. [Minn. R. 7090]
5.16.132	The Permittee shall limit and control the use of materials at the facility that may cause exceedances of ground water standards specified in Minn. R. 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. 7090]
5.16.133	Stormwater Pollution Prevention Plan. [Minn. R. 7001]
5.16.134	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/r4ard68 . [Minn. R. 7090]
5.16.135	At a minimum, the SWPPP shall include: a. a description of appropriate Best Management Practices (BMPs) (including structural and non-structural) for protection of surface and groundwater quality at the facility and a schedule for implementing the practices; b. a drainage map for the entire facility; c. an inventory of exposed significant materials; d. an evaluation of the facility areas with exposure of significant materials to stormwater; e. an evaluation of all discharge conveyances from the site; a preventative maintenance program; f. a spill prevention and response procedure; and g. procedures to be followed by designated staff employed by the Permittee to implement the SWPPP. [Minn. R. 7090]
5.16.136	In addition, the SWPPP shall include the following: a. Facility Map. Identify where any of the following may be exposed to stormwater: handling, storage or disposal areas for screenings and other solids, sludge drying beds, dried sludge piles, compost piles, septage or hauled waste receiving stations, and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides, and pesticides. b. Potential Pollutant Sources. Describe the following additional sources that have potential pollutants associated with them: grit, screenings, and other solids handling, sludge drying beds, dried sludge piles, compost piles, septage or hauled waste receiving stations, and access roads and rail lines. [Minn. R. 7090]
5.16.137	The SWPPP shall be developed and implemented within 180 days after permit issuance and shall be available for inspection. [Minn. R. 7090]
5.16.138	Employee Training Program. [Minn. R. 7001]
5.16.139	The Permittee shall develop and implement an employee training program to inform appropriate personnel of the components and goals of the SWPPP. At a minimum, training shall address:

		<p>a. spill/leak prevention and response; b. good housekeeping; c. petroleum product management; d. process chemical management; e. fueling procedures; f. proper procedures for using fertilizer, herbicides, and pesticides; g. erosion and sedimentation controls; h. inspections; i. preventative maintenance; j. runoff management; and k. materials management practices.</p> <p>The SWPPP shall identify periodic dates for such training as well as personnel responsible for managing and implementing the SWPPP and those responsible for the reporting requirements of this permit. This shall include the facility contact person as indicated on the permit application. Identified personnel shall be available at reasonable times of operation.</p> <p>Guidance regarding employee training programs is available on the web at: http://www.pca.state.mn.us/r4ard68. [Minn. R. 7090]</p>
	5.16.140	Inspection and Maintenance. [Minn. R. 7001]
	5.16.141	<p>The Permittee shall develop and implement an inspection schedule that includes a minimum of one facility inspection per calendar month. A minimum of one inspection per calendar year shall be conducted during a runoff event. Inspections shall be conducted by appropriately trained personnel at the facility. The purpose of inspections is to:</p> <ol style="list-style-type: none"> 1. determine whether structural and non-structural BMPs require maintenance or changes, and 2. evaluate the completeness and accuracy of the SWPPP. <p>Inspection results and documentation shall remain on-site whenever Permittee staff are on the site and shall be available upon request. The inspection form is located on the MPCA's website at: http://www.pca.state.mn.us/r4ard68. [Minn. R. 7090]</p>
	5.16.142	<p>Inspections shall be documented. Documentation shall include the following information:</p> <ol style="list-style-type: none"> a. inspection date and time; b. weather conditions; c. inspector name; d. findings; and e. a description of any necessary corrective actions and a schedule for corrective action completion. <p>A copy of all inspection documentation shall be stored with the SWPPP. [Minn. R. 7090]</p>
	5.16.143	<p>In addition to the inspection requirements listed above, the following areas (including, but not limited to) shall be inspected:</p> <ol style="list-style-type: none"> a. access roads and rail lines; b. grit, screenings and other solids handling; c. sludge drying beds; d. dried sludge piles; e. compost piles; and f. septage or hauled waste receiving stations. [Minn. R. 7090]
	5.16.144	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]
	5.16.145	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]
	5.16.146	Sedimentation Basin Design and Construction. [Minn. R. 7001]
	5.16.147	The Permittee is authorized to use designed infiltration devices or industrial stormwater ponds/sedimentation basins 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: http://www.pca.state.mn.us/r4ard68 . [Minn. R. 7090]
	5.16.148	Benchmark Monitoring Requirements. [Minn. R. 7001]
	5.16.149	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: http://www.pca.state.mn.us/r4ard68 . For the purposes of this permit, Benchmark Monitoring is reflected as intervention limits in the Limits and Monitoring section of this permit. Benchmark Monitoring results shall comply with intervention limits as required. [Minn. R. 7090]
	5.16.150	The Permittee shall complete Benchmark Monitoring for the parameters and at the frequency identified in the limits and monitoring requirements specified for the Surface Discharge Stormwater, Non-Specific Runoff Station. 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. Quarterly sample results shall be averaged annually and the annual quarterly average shall be reported on the December electronic Discharge Monitoring Report (eDMR). [Minn. R. 7090]
	5.16.151	The Permittee shall complete Benchmark Monitoring for the parameters and at the frequency identified in the limits and monitoring requirements specified for the Surface Discharge Stormwater, Non-Specific Runoff Station. Specified parameters shall be sampled on an annual basis. Each annual sample may be collected at any time during the calendar year, and the calendar year average shall be reported on the December electronic Discharge Monitoring Report (eDMR). [Minn. R. 7090]
	5.16.152	An exceedance of a benchmark monitoring intervention limit does not constitute a violation under this permit. However, the Permittee is required to perform any necessary corrective action(s) to address stormwater control measures, including the maintenance or implementation of BMPs, when an exceedance of an applicable benchmark value occurs. Failure to respond to any benchmark intervention limit exceedance is a violation of the permit. [Minn. R. 7090]
	5.16.153	If benchmark monitoring intervention limits are exceeded, the Permittee shall modify the SWPPP, document all corrective actions, and implement necessary non-structural BMPs within 60 days after discovery and structural BMPs within 180 days after discovery of the exceedance. [Minn. R. 7090]
	5.16.154	Reporting. [Minn. R. 7001]
	5.16.155	The Permittee shall submit a stormwater annual report: Due by February 28 of each year following permit issuance. [Minn. R. 7090]
	5.16.156	A copy of the Stormwater Annual Report Form is located on the MPCA's website at: http://www.pca.state.mn.us/r4ard68 . [Minn. R. 7090]
	5.16.157	The Permittee shall, upon request of the Agency, submit within a reasonable time the information and reports that are relevant to compliance with this Chapter, including the Plan, inspection reports, annual reports, original laboratory sheets from analyses conducted on the waste stream, and BMP plans and specifications. [Minn. R. 7090]
	5.16.158	Records. [Minn. R. 7001]
	5.16.159	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]
	5.16.160	Notification. [Minn. R. 7001]
	5.16.161	If the Permittee discharges stormwater into a regulated Municipal Separate Storm Sewer System (MS4), the Permittee shall notify the operator of the first MS4 of the existence of this permit within 30 days of its issuance. [Minn. R. 7090]
	5.16.162	No Exposure. [Minn. R. 7001]
	5.16.163	If the Permittee meets the eligibility criteria for No Exposure and is eligible for the conditional exclusion for No Exposure, as regulated by 40 CFR 122.26(b) (14) (i) through (ix) and (xi), it may submit: a. a No Exposure certification to the MPCA in accordance with Minn. R. 7090.3060; and b. a permit application for a modification of the NPDES/SDS Permit. [Minn. R. 7090]
	5.16.164	Definitions. [Minn. R. 7001]
	5.16.165	"Best Management Practices" or "BMPs" means practices to prevent or reduce the pollution of waters of the state, including schedules of activities, prohibitions of practices, other management practices, and also includes treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge, waste disposal or drainage from raw material storage. [Minn. R. 7090]
	5.16.166	"No Exposure" means all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snow melt, and/or runoff. Industrial activities or materials include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. [Minn. R. 7090]
	5.16.167	"Non-Stormwater Discharge" means any discharge not comprised entirely of stormwater discharges authorized by a NPDES permit. [Minn. R. 7090]
	5.16.168	"Runoff" means any liquid that drains over land from any part of a facility. [Minn. R. 7090]
	5.16.169	"Benchmark Monitoring Location" means the location(s) within the boundary of the facility where the Permittee will collect stormwater samples for the purpose of compliance with the benchmark monitoring requirements of this permit. The benchmark monitoring location(s) shall be in a location that: a. is below the most down-gradient BMP from the source of the industrial activity or significant materials, but prior to discharging from the Permittee's operational control; b. minimizes or eliminates sampling of stormwater from off-site sources (run-on); and c. yields a sample that best represents the contribution of pollutants the Permittee is required to monitor for in accordance with the Benchmark Monitoring Requirements section of this permit, and that receives drainage from an area of industrial activities, processes, and significant materials exposed to stormwater. [Minn. R. 7090]
		Total Residual Oxidants
	5.17.170	General Requirements. [Minn. R. 7001]
	5.17.171	"Daily Maximum" for Total Residual Chlorine (TRC) concentration limits means: A. The value of a single sample in a 24-hour period if the concentration of TRC in that sample is 0.038 mg/L or less; B. If the concentration of TRC in the first sample is greater than 0.038 mg/L reporting the average of two to twelve samples analyzed in a 24-hour period is allowed. The second sample shall be taken two hours after the first sample and subsequent samples are to be taken at one-hour intervals thereafter, not to exceed a total of twelve samples in a 24-hour period. Values below the Reporting Limit for TRC are assumed to be zero for averaging purposes only and; C. The average value of multiple daily TRC effluent sample analyses shall meet the 0.038 mg/L limit to be in compliance. [State Definitions]

5.17.172	Total Residual Chlorine shall be analyzed immediately. This means within 15 minutes or less of sample collection. [Minn. R. 7001]
5.17.173	A Reporting Limit shall be established for this parameter. This must be based on the analysis of a standard at or below the Reporting Limit. A Reporting Limit of 0.1 mg/L is considered in compliance with the 0.038 mg/L limit. [Minn. R. 7001]
5.17.174	Monitoring results below the Reporting Limit should be reported as "<" the Reporting Limit. For example, if the Reporting Limit is 0.01 mg/L based on the analysis of a standard at or below the level, and a parameter is not detected at a value of 0.01 mg/L or greater, the concentration shall be reported as "< 0.01 mg/L." The symbol "<" means "less than". [Minn. R. 7001]
5.17.175	The Reporting Limit must be verified against a known standard at least monthly during monitoring periods. For successful verification, the standard needs to be recovered at +40% of the actual value. [Minn. R. 7001]
	Total Facility Requirements (NPDES/SDS)
5.18.176	Definitions. Refer to the 'Permit User's Manual' found on the MPCA website (www.pca.state.mn.us) for standard definitions. [Minn. R. 7001.]
5.18.177	Incorporation by Reference. The following applicable federal and state laws are incorporated by reference in this permit, are applicable to the Permittee, and are enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. pts. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. ch. 115 and 116. [Minn. R. 7001]
5.18.178	Permittee Responsibility. The Permittee shall perform the actions or conduct the activity authorized by the permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the Agency. [Minn. R. 7001.0150, subp. 3(E)]
5.18.179	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 Code of Federal Regulations, Title 40, sections 400 to 460 and Minnesota Rules 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]
5.18.180	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, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]
5.18.181	Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
5.18.182	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)]
5.18.183	The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what is authorized by Minnesota Statutes. [Minn. R. 7001.0150, subp. 3(D)]
5.18.184	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)]
5.18.185	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)]
5.18.186	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]
5.18.187	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]

5.18.188		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 agency, or an authorized employee or agent of the agency, shall be allowed by the Permittee to enter at reasonable times upon the property of the Permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(I)]
5.18.189		Control Users. The Permittee shall regulate the users of its wastewater treatment facility so as 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)]
5.18.190		Sampling. [Minn. R. 7001]
5.18.191		Representative Sampling. Samples and measurements required by this permit shall be conducted as specified in this permit and shall be representative of the discharge or monitored activity. [40 CFR 122.41(j)(1)]
5.18.192		Additional Sampling. If the Permittee monitors more frequently than required, the results and the frequency of monitoring shall be reported on the Discharge Monitoring Report (DMR) or another MPCA-approved form for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]
5.18.193		Certified Laboratory. A laboratory certified by the Minnesota Department of Health and/or registered by the MPCA shall conduct analyses required by this permit. Analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine) do not need to be completed by a certified laboratory but shall comply with manufacturers specifications for equipment calibration and use. [Minn. R. 4740.2010, Minn. R. 4740.2050 through 2120]
5.18.194		Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and Minn. R. 7041.3200. [40 CFR 136, Minn. R. 7041.3200]
5.18.195		Equipment Calibration: Flow meters, pumps, flumes, lift stations or other flow monitoring equipment used for purposes of determining compliance with permit shall be checked and/or calibrated for accuracy at least twice annually. [Minn. R. 7001.0150, 2(B and C)]
5.18.196		<p>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:</p> <ul style="list-style-type: none"> 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, 2(C)]
5.18.197		<p>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 information shall be recorded in the specified areas on those forms and in the units specified.</p> <p>Required forms may include DMR Supplemental/Sample Value Form Individual values for each sample and measurement shall be recorded on the DMR Supplemental/Sample Value Form which, if required, will be provided by the MPCA. DMR Supplemental/Sample Value Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it shall be approved by the MPCA. Note: Required summary information shall also be recorded on the DMR. Summary information that is submitted ONLY on the DMR Supplemental/Sample Value Form does not comply with the reporting requirements. [Minn. R. 7001.1090, 1(D), Minn. R. 7001.150, 2(B)]</p>

5.18.198	<p>Submitting Reports. DMRs, DMR supplemental forms and related attachments must be electronically submitted via MPCA e-Services after authorization is approved.</p> <p>DMRs and DMR Supplemental Forms shall be electronically submitted by the 21st day of the month following the sampling period or otherwise as specified in this permit. Electronic DMR submittal shall be complete on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. A DMR shall be submitted for each required station even if no discharge occurred during the reporting period.</p> <p>Other reports required by this permit shall be postmarked by the date specified in the permit to: MPCA, Attn: WQ Submittals Center, 520 Lafayette Road North, St Paul Minnesota 55155-4194. [Minn. R. 7001.0150, 2(B), Minn. R. 7001.0150, 3(H)]</p>
5.18.199	<p>Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or DMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or DMR. The amended report or DMR shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. If it is impossible to electronically amend the report or DMR, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, 3(G)]</p>
5.18.200	<p>Required Signatures. All DMRs, forms, reports, and other documents submitted to the MPCA shall be signed by the Permittee or the duly authorized representative of the Permittee. Minn. R. 7001.0150, subp. 2, item D. The person or persons that sign the DMRs, forms, reports or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. 7001.0070 and 7001.0540, including the penalties for submitting false information. Technical documents, such as design drawings and specifications and engineering studies required to be submitted as part of a permit application or by permit conditions, shall be certified by a registered professional engineer. [Minn. R. 7001.0540]</p>
5.18.201	<p>Detection Level. The Permittee shall report monitoring results below the reporting limit (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 concentration shall be reported as "<0.1 mg/L." "Non-detected," "undetected," "below detection limit," and "zero" are unacceptable reporting results, and are permit reporting violations.</p> <p>Where sample values are less than the level of detection and the permit requires reporting of an average, the Permittee shall calculate the average as follows:</p> <ol style="list-style-type: none"> a. If one or more values are greater than the level of detection, substitute zero for all nondetectable values to use in the average calculation. b. If all values are below the level of detection, report the averages as "<" the corresponding level of detection. c. Where one or more sample values are less than the level of detection, and the permit requires reporting of a mass, usually expressed as kg/day, the Permittee shall substitute zero for all nondetectable values. [Minn. R. 7001.0150, 2(B)]
5.18.202	<p>Records. The Permittee shall, when requested by the Agency, 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, 3(H)]</p>
5.18.203	<p>Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit shall be available for public inspection. Effluent data shall not be considered confidential. To request the Agency maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]</p>
5.18.204	<p>Noncompliance and Enforcement. [Minn. R. 7001]</p>
5.18.205	<p>Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit</p>

		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, 1(B)]
	5.18.206	Criminal Activity. The Permittee may not knowingly make a false statement, representation, or certification in a record or other document submitted to the Agency. A person who falsifies a report or document submitted to the Agency, or tampers with, or knowingly renders inaccurate a monitoring device or method required to be maintained under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, 3(G), Minn. R. 7001.1090, 1(G and H), Minn. Stat. ch. 609.671, 1]
	5.18.207	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)]
	5.18.208	<p>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 has occurred which could endanger human health, public drinking water supplies, or the environment, the Permittee shall within 24 hours of the discovery of the noncompliance, orally notify the commissioner and submit a written description of the noncompliance within 5 days of the discovery. The written description shall include items a. through e., as listed below. If the Permittee discovers other non-compliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the non-compliance shall be reported during the next reporting period to the MPCA with its Discharge Monitoring Report (DMR). If no DMR is required within 30 days, the Permittee shall submit a written report within 30 days of the discovery of the noncompliance. This description shall include the following information:</p> <p>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. 7001.150, 3(K)]</p>
	5.18.209	<p>Upset Defense. In the event of temporary noncompliance by the Permittee with an applicable effluent limitation 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 Agency as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:</p> <p>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, item I; and f. that the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3, item J. [Minn. R. 7001.1090]</p>
	5.18.210	Release. [Minn. R. 7001]
	5.18.211	Unauthorized Releases of Wastewater Prohibited. Except for discharges from outfalls specifically authorized by this permit, overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, are prohibited. However, 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]
	5.18.212	<p>Discovery of a release. Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none"> a. Take all reasonable steps to immediately end the release. b. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area). 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 released materials or substances cannot be immediately or completely recovered, 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]
	5.18.213	<p>Sampling of a release. Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none"> a. Collect representative samples of the release. The Permittee shall sample the release for 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, Fecal Coliform Bacteria samples shall be collected where it is determined by the Permittee that the release contains or may contain sewage. If the release cannot be immediately stopped, the Permittee shall consult with MPCA regarding additional sampling requirements. Samples shall be collected at least, but not limited to, two times per week for as long as the release continues. b. Submit the sampling results on the Release Sampling Form (http://www.pca.state.mn.us/index.php/view-document.html?gid=18867). The Release Sampling Form shall be submitted to the MPCA with the next DMR or within 30 days whichever is sooner. [Minn. R. 7001.1090]
	5.18.214	Bypass. [Minn. R. 7001]
	5.18.215	<p>Anticipated bypass. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The permittee shall submit prior notice, if possible at least ten days before the date of the bypass to the MPCA.</p> <p>The notice of the need for an anticipated bypass shall include the following information:</p> <ul style="list-style-type: none"> 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, samples shall be collected 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 and 3), Minn. R. 7001.1090, 1(J)]
	5.18.216	<p>All other bypasses are prohibited. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. Ch. 7001.1090 subp. 1, K and 122.41(m) (4) (i) are met.</p> <p>In the event of an unanticipated bypass, the permittee shall:</p> <ul style="list-style-type: none"> a. Take all reasonable steps to immediately end the bypass. b. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon commencement of the bypass. You may contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area).

		<p>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.</p> <p>d. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. Samples shall be collected 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, 1(K), Minn. Stat. ch. 115.061]</p>
	5.18.217	Operation and Maintenance. [Minn. R. 7001]
	5.18.218	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, item F. [Minn. R. 7001.0150, 3(F)]
	5.18.219	In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail its 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 the wastewater treatment facility has been restored or until an alternative method of treatment is provided. [Minn. R. 7001.1090, 1(C)]
	5.18.220	Solids Management. The Permittee shall properly store, transport, and dispose of biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or ground waters of the state. Solids should be disposed of in accordance with local, state and federal requirements. [40 CFR 503, Minn. R. 7041]
	5.18.221	Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent degradation of water quality, except where emergency maintenance is required to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]
	5.18.222	Control Tests. In-plant control tests shall be conducted at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]
	5.18.223	Changes to the Facility or Permit. [Minn. R. 7001]
	5.18.224	<p>Permit Modifications. Except as provided under Minnesota Statutes, section 115.07, subdivisions 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 agency has issued a written permit for the facility or activity.</p> <p>Permittees that propose to make a change to the facility or discharge that requires a permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee shall contact the MPCA prior to any action. It is recommended that the application for permit modification be submitted to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]</p>
	5.18.225	<p>Plans, specifications and MPCA approval are not necessary 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, a broken pipe, lift station pump, aerator, or blower can be replaced with the same design-sized equipment without MPCA approval.</p> <p>If the proposed construction is not expressly authorized by this permit, it may require a permit modification. If the construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until a negative declaration is issued and all approvals are</p>

		received or implemented. [Minn. R. 7001.0030]
	5.18.226	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, 3(M)]
	5.18.227	<p>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.</p> <p>The Permittee shall request approval for an increased or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increased or new use. This written request shall include at least the following information for the proposed additive:</p> <ul style="list-style-type: none"> 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 MSDS 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. <p>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]</p>
	5.18.228	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 this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]
	5.18.229	TMDL Impacts. Facilities that discharge to an impaired surface water, watershed or drainage basin may be required to comply with additional permits or permit requirements, including additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d) (4) (A) and 40 CFR 122.44.I.2.i., necessary to ensure consistency with the assumptions and requirements of any applicable US EPA approved waste load allocations resulting from Total Maximum Daily Load (TMDL) studies. [40 CFR 122.44(I) (2) (i)]
	5.18.230	Permit Transfer. The permit is not transferable to any person without the express written approval of the Agency after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit. [Minn. R. 7001.0150, 3(N)]
	5.18.231	<p>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 to the MPCA a facility Closure Plan for approval.</p> <p>Facility closure that could result in a potential long-term water quality concern, such as the ongoing</p>

		<p>discharge of wastewater to surface or ground water, may require a permit modification or reissuance.</p> <p>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 financial assurance is required, the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance, shall be approved by the MPCA. [Minn. Stat. ch. 116.07, 4]</p>
	5.18.232	<p>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. 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.</p> <p>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 (Minn. R. 7001.0040 and 7001.0160):</p> <ul style="list-style-type: none"> 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; 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. 7001.0160]
		Facility Specific Requirements
	5.19.233	Pretreatment - Removal Credits. [Minn. R. 7049]
	5.19.234	The Permittee may grant a removal credit of 88% for chromium to industries using the Bench Street Facility. These removal credits are applicable to chromium limits in national categorical pretreatment standards and shall be used to adjust the limits for industries using the Bench Street Facility. [Minn. R. 7049]
	5.19.235	Where it is necessary to apply the Combined Wastestream Formula (CWF) in conjunction with removal credits, categorical standard based limits should first be adjusted to reflect the removal credits, and then permit limits should be calculated by substituting the revised limits for the categorical standards in the CWF. [Minn. R. 7049]
	5.19.236	If removal of chromium consistent with the removal credit allowed is not achieved, or if chromium causes interference or pass through, the removal credits are subject to withdrawal or modification in accordance with Minnesota Rules 7049.0470. [Minn. R. 7049]
	5.19.237	<p>Chromium</p> <p>A. This Permit recognizes a 88% removal credit for chromium, approved by MPCA on June 17, 2013, and granted exclusively to the Bench Street pretreatment facility and is subject to the following conditions being met and continuing to be met:</p> <ul style="list-style-type: none"> 1. The Permittee shall demonstrate and continue to achieve consistent removal of the chromium pursuant to Minnesota Rules 7049.0400 and 7049.0410; 2. The Permittee shall maintain and enforce the approved pretreatment program; 3. The Permittee shall ensure that the sludge disposal method meets all regulatory requirements; and, 4. The Permittee shall ensure that limitations and conditions of this permit associated with the removal credit approval are not violated. <p>B. Within six (6) months of the effective date of this Permit, the Permittee shall re-evaluate, and</p>

		adopt, if necessary, local limits for the Bench Street pretreatment facility for chromium. C. The Permittee shall monitor chromium in the primary influent and effluent of the Bench Street pretreatment facility at least one time per month. The Permittee shall submit annual reports of the primary removal percentages calculated for each such sample and the overall removal percentage for the year for chromium calculated pursuant to Minnesota Rule 7049.0410. This report shall be submitted annually in conjunction with the MPCA Pretreatment Report following the issuance of the initial industrial discharge permit limits implementing removal credits for chromium. [Minn. R. 7049]
	5.19.238	Should the actual removal percentage for chromium drop below 88% for any given month or such discharge limit revisions pursuant to the removal credits are causing a violation of any conditions or limits contained in this NPDES permit, the Permittee shall implement corrective action to bring the removal percentage up to 88% or a level that will not cause NPDES permit violations. The Permittee shall take appropriate corrective action and notify the MPCA immediately that a removal percentage has dropped below an authorized level or such discharge limit revisions pursuant to the removal credits are causing a violation of any conditions or limits contained in this NPDES permit. The Permittee will have sixty (60) days to complete corrective action. This sixty (60) day time period may be extended by MPCA if the Permittee or the effected IU(s) demonstrate(s) that a longer time period is necessary to undertake the appropriate corrective action. Any extension of this sixty (60) day time period must be approved by MPCA in writing. If the corrective action fails to bring the removal percentage up to 88% or eliminate the permit violations within the agreed upon time period, this permit may be reopened and modified pursuant to the following permit provisions. [Minn. R. 7049]
	5.19.239	Upon commencement of corrective action pursuant to the requirement above, the sampling frequency for the specific parameter shall be four times per month and the reporting frequency shall be quarterly. If the actual removal percentage for an individual parameter meets or exceeds the level for which the removal credit is granted for 6 consecutive months following corrective action, the Permittee may decrease sampling frequency for the specific parameter to monthly and the reporting frequency can be decreased to annually and submitted along with the annual pretreatment report. [Minn. R. 7049]
	5.19.240	Should the Permittee change operations at the treatment plant in a manner reasonably expected to lower the removal of chromium below 88%, the Permittee shall notify MPCA in writing within fourteen (14) days of making such operational change(s). The sampling frequency for the affected parameter(s) shall be four times per month for the first six months after the implementation of the operational change. Removal percentages for the affected parameter(s) shall be reported quarterly to MPCA during this six month time period. [Minn. R. 7049]
	5.19.241	Should corrective action fail to bring the removal percentages up to an acceptable level, this Permit may be reopened and modified to include a withdrawal or modification of the removal credit pursuant to Minn. R. 7049.0470 and the provisions above. Such action would not be done without Public Notice of the Removal Credit Modification or Withdrawal. [Minn. R. 7049]
	5.19.242	These removal credits shall be re-calculated pursuant to Minnesota Rules 7049.0410 and these re-calculations submitted with the application for NPDES permit renewal. [Minn. R. 7049]
	5.19.243	Re-Authorization Submittal Removal credits will remain in effect for the term of the POTW's NPDES permit, provided the POTW maintains compliance with the conditions specified in Minnesota Rules 7049.0470. Request for re-authorization for continuation of the removal credits shall be submitted with the permit application to the MPCA at the time of permit reissuance. [Minn. R. 7049]
	5.19.244	Drying Pad Annual Inspection. [Minn. R. 7001]
	5.19.245	The Permittee shall conduct an inspection of the drying pad annually and submit an inspection report to the MPCA by December 31st. The report shall include the following: a. Photograph(s) of the drying pad, to display pad condition. b. Visual observations of the pad condition. c. A description of the maintenance activity that has occurred in the previous year. d. A description of maintenance planned in the following year.

		The Permittee shall submit the inspection report to the following address: MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. Submit a report: Due annually, by the 31 st of December. [Minn. R. 7001]

6. Submittal action summary

SD006	Effluent To Surface Water	
		Surface Discharge: Class A Major Facility Effluent 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)]
		Acute Toxicity Requirements
	6.2.2	The Permittee shall submit annual acute toxicity test battery results: Due 180 calendar days after Permit Issuance Date annually and annually thereafter. [Minn. R. 7001]
		Priority Pollutant Requirements
	6.3.3	The Permittee shall submit the first priority pollutant monitoring report: Due 1095 calendar days before Permit Expiration Date. (By two years after permit issuance date). [Minn. R. 7001]
	6.3.4	The Permittee shall submit the second priority pollutant monitoring report: Due 730 calendar days before Permit Expiration Date. (By three years after permit issuance date). [Minn. R. 7001]
	6.3.5	The Permittee shall submit the third priority pollutant monitoring report: Due 365 calendar days before Permit Expiration Date. (By four years after permit issuance date). [Minn. R. 7001]
SD007	Stormwater, Non-specific Runoff	
		Surface Discharge: Industrial Stormwater Section T Requirements
	6.4.1	The Permittee shall submit an annual DMR: Due by 21 days after the end of each calendar year following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
SD008	Stormwater, Non-specific Runoff	
		Surface Discharge: Industrial Stormwater Section T Requirements
	6.5.1	The Permittee shall submit an annual DMR: Due by 21 days after the end of each calendar year following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
WS001	Influent Waste	
		Waste Stream: Class A Major Facility Influent 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)]
MN0024571	Red Wing WWTP	
		Mercury Minimization Plan
	6.7.1	The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days after permit issuance. [Minn. R. 7001]
		Pretreatment: Delegated Requirements

	6.8.2	The Permittee shall submit a pretreatment annual report: Due by February 28 of each year following permit issuance. [Minn. R. 7049]
Biosolids: Land Application		
	6.9.3	The Permittee shall submit a biosolids annual report: Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]
Industrial Stormwater Sector T: Treatment Works		
	6.10.4	The Permittee shall submit a stormwater annual report: Due by February 28 of each year following permit issuance. [Minn. R. 7090]
Total Facility Requirements (NPDES/SDS)		
	6.11.5	<p>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. 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.</p> <p>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 (Minn. R. 7001.0040 and 7001.0160):</p> <ul style="list-style-type: none"> 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; 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. 7001.0160]
Facility Specific Requirements		
	6.12.6	<p>The Permittee shall conduct an inspection of the drying pad annually and submit an inspection report to the MPCA by December 31st. The report shall include the following:</p> <ul style="list-style-type: none"> a. Photograph(s) of the drying pad, to display pad condition. b. Visual observations of the pad condition. c. A description of the maintenance activity that has occurred in the previous year. d. A description of maintenance planned in the following year. <p>The Permittee shall submit the inspection report to the following address:</p> <p>MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. Submit a report: Due annually, by the 31st of December. [Minn. R. 7001]</p>

7. Limits and monitoring

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		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	
SD006 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	378 calendar month average	606 maximum calendar week average	kilograms per day		25 calendar month average	40 maximum calendar week average	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD006 Total Facility Discharge	Chlorine, Total Residual						0.038 daily maximum	milligrams per liter	once per day	Grab	Jan-Dec	
SD006 Total Facility Discharge	Chromium, Hexavalent (as Cr)						Monitor only. calendar month maximum	micrograms per liter	once per month	Grab	Jan, July	
SD006 Total Facility Discharge	Cyanide, Free (as CN)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Apr, Sep	
SD006 Total Facility Discharge	Fecal Coliform, MPN or Membrane Filter 44.5C					200 calendar month geometric mean		organisms per 100 milliliter	3 times per week	Grab	Apr-Oct	
SD006 Total Facility Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	

Permit issued: March 1, 2020
 Permit expires: February 28, 2025

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		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	
SD006 Total Facility Discharge	Mercury, Dissolved (as Hg)					Monitor only. calendar month average	Monitor only. daily maximum	nanograms per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
SD006 Total Facility Discharge	Mercury, Total (as Hg)					8.9 calendar month average	14.8 daily maximum	nanograms per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
SD006 Total Facility Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	Oxygen, Dissolved					Monitor only. calendar month minimum		milligrams per liter	once per day	Grab	Jan-Dec	
SD006 Total Facility Discharge	pH					6.0 calendar month minimum	9.0 calendar month maximum	standard units	once per day	Grab	Jan-Dec	
SD006 Total Facility Discharge	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		1.0 calendar month average		milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		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	
SD006 Total Facility Discharge	Phosphorus, Total (as P)		4421 12-month moving total	kilograms per year					once per month	Calculation	Jan-Dec	
SD006 Total Facility Discharge	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Mar, Sep	
SD006 Total Facility Discharge	Solids, Total Suspended (TSS)	454 calendar month average	681 maximum calendar week average	kilograms per day		30 calendar month average	45 maximum calendar week average	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
SD006 Total Facility Discharge	Solids, Total Suspended (TSS) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD006 Total Facility Discharge	Solids, Total Suspended (TSS), grab (Mercury)					Monitor only. calendar month average	Monitor only. daily maximum	milligrams per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
SD007 Stormwater Discharge	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar year average intervention		milligrams per liter	once per year	Grab	Jan-Dec	The intervention limit is 25 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit.
SD007 Stormwater Discharge	Solids, Total Suspended (TSS)					Monitor only. calendar year average intervention		milligrams per liter	once per year	Grab	Jan-Dec	The intervention limit is 100 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit.

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		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	
SD008 Stormwater Discharge	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar year average intervention		milligrams per liter	once per year	Grab	Jan-Dec	The intervention limit is 25 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit.
SD008 Stormwater Discharge	Solids, Total Suspended (TSS)					Monitor only. calendar year average intervention		milligrams per liter	once per year	Grab	Jan-Dec	The intervention limit is 100 mg/L. If this limit is exceeded, the Permittee must take action as described in the stormwater section of this permit.
WS001 Influent Waste Stream	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
WS001 Influent Waste Stream	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
WS001 Influent Waste Stream	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
WS001 Influent Waste Stream	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS001 Influent Waste Stream	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	

Permit issued: March 1, 2020
 Permit expires: February 28, 2025

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		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	
WS001 Influent Waste Stream	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS001 Influent Waste Stream	pH				Monitor only. calendar month minimum		Monitor only. calendar month maximum	standard units	once per day	Grab	Jan-Dec	
WS001 Influent Waste Stream	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS001 Influent Waste Stream	Precipitation		Monitor only. calendar month total	inches					once per day	Measurement	Jan-Dec	
WS001 Influent Waste Stream	Solids, Total Suspended (TSS)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	

