



STATE OF MINNESOTA

Minnesota Pollution Control Agency**Municipal Division****National Pollutant Discharge Elimination System (NPDES)/
State Disposal System (SDS) Permit MN0020168**

PERMITTEE:	City of Paynesville		
FACILITY NAME:	Paynesville Wastewater Treatment Facility		
RECEIVING WATER:	North Fork of the Crow River (Class 2B, 3C, 4A, 4B, 5, 6 water)		
CITY OR TOWNSHIP:	Paynesville	COUNTY:	Stearns
ISSUANCE DATE:	June 29, 2011	EXPIRATION DATE:	May 31, 2016
MODIFICATION DATE:			

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to construct, install and 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 Minnesota and US statutes and rules, including Minn. Stat. chs. 115 and 116, Minn. R. chs. 7001, 7041, 7049, 7050, 7053, 7060, and the US Clean Water Act.

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

Signature: _____
 Ronald R. Swenson, Supervisor *for The Minnesota Pollution Control Agency*
 North Central Regional and SSTS
 Compliance and Enforcement Unit
 Brainerd Office, Municipal Division

Submit DMRs to:

Attention: Discharge Monitoring Reports
 Minnesota Pollution Control Agency
 520 Lafayette Rd N
 St Paul, MN 55155-4194

Submit Other WQ Reports to:

Attention: WQ Submittals Center
 Minnesota Pollution Control Agency
 520 Lafayette Rd N
 St Paul, MN 55155-4194

Questions on this permit?

- For DMR and other permit reporting issues, contact:
Tamara Dahl, 507-476-4252.
- For specific permit requirements or permit compliance status, contact:
Justin Barrick, 218-316-3858.
- General permit or NPDES program questions, contact:
MPCA, 651-282-6143 or 1-800-657-3938.

520 Lafayette Rd. N.; St. Paul, MN 55155-4194; 651-296-6300 (voice); 651-282-5332 (TTY)

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Facility Description

The Paynesville Wastewater Treatment Facility (Facility) is located in the NE 1/4 of SW 1/4 of Section 3, Township 122 North, Range 32 West, Paynesville Township, Stearns County, Minnesota. This is a Class B Facility.

Major components of the Facility include:

- Influent Lift Station (proposed)
- Influent Lift Station (existing to be eliminated)
- 1 Bar Screen – manual (proposed)
- 1 Bar Screen – mechanical (proposed)
- 1 Bar Screen – mechanical (existing to be eliminated)
- 1 Grit Removal System (proposed)
- 1 Grit Removal System (existing to be eliminated)
- Influent Flow Meter (proposed 9" Parshall Flume)
- 1 Aerated Pond - more than two hours detention time (existing, proposed rehab)
- 3 Primary Stabilization Ponds (existing)
- 2 Intermediate Stabilization Ponds (existing)
- 2 Secondary Stabilization Ponds (existing)
- 1 Flow Equalization Basin (existing retention basin prior to micro-screen)
- 1 Effluent Screen (existing micro-screen)
- Effluent Pumping (existing, proposed rehab)
- Effluent Flow Meter (existing magnetic flow meter for spray sites)
- 15 Spray Irrigation Sites – agricultural (existing)
- Land Application (proposed every 10-15 years)
- Polishing Pond without aeration (existing retention basin)

The application and plans indicate that the existing treatment system consists of a main lift station, a mechanical bar screen, a grit chamber, an aerated pond, a 7-cell stabilization pond system (3 primary cells, 2 intermediate cells, and 2 secondary cells), a retention basin, a micro-screen, effluent pump station, effluent magnetic flow meter, 15 spray irrigation sites, a groundwater monitoring well network consisting of 6 monitoring wells, a drain tile system under spray sites 2, 3, 6, 11, and 12, and a retention basin for the drain tile effluent and stormwater.

The Facility is designed to treat an average wet weather flow (AWWF) of 887,000 gallons per day (gpd) with a five-day carbonaceous biochemical oxygen demand (CBOD₅) concentration of 676 milligrams per Liter (mg/L) and a total suspended solids (TSS) concentration of 300 mg/L. The pond system consists of: one 1.65-acre aerated pond; 3 primary ponds measuring 36-acres, 36-acres, and 40-acres; 2 intermediate cells measuring 7.25-acres each; and 2 secondary cells measuring 14-acres and 24-acres (all pond cells are measured at the 3-foot depth level). The pond system provides a total detention time of 245 days at design flow. The retention basin is approximately 9-acres in size. The existing spray irrigation sites total 1,160.7-acres.

The outfall structure from the retention basin is capable of discharging (SD001) to the North Fork of the Crow River (Class 2B, 3C, 4A, 4B, 5, 6 Water). The retention basin receives surface and groundwater drainage from a drain tile system under spray sites 2, 3, 6, 11, and 12. The retention basin also receives water from a ditch along the northwest perimeter of the north primary pond which drains the area

around the ponds and approximately 400-500 acres south of the railroad tracks. There is not a discharge from the stabilization pond system into the retention basin or into surface waters.

A drain tile was installed around the aerated cell which discharges (GW007) approximately 600 feet overland to the North Fork of the Crow River.

The Permittee will be constructing a new main lift station, including: screening, grit removal system, dry pit centrifugal pumps, SCADA system and stand-by power. The existing aerated pond system and blower building will be rehabilitated, including: multistage centrifugal blowers, floating aeration system, air piping, new electrical gear, SCADA system and stand-by power. The existing irrigation lift station will be rehabilitated, including: vertical turbine pumps, piping, new electrical gear and SCADA system.

The proposed upgraded Facility will be designed to treat an AWWF (30-day) of 1.174 million gallons per day (MGD), a peak hourly wet weather flow of 1.775 MGD, and a peak instantaneous wet weather flow of 2.005 MGD with a CBOD₅ concentration of 602 mg/L and a TSS concentration of 324 mg/L. The average design flow (210-day) of 887,000 gpd is used for storage capacity requirements for operation of the spray irrigation system. The pond system provides a total detention time of 245 days at average design flow.

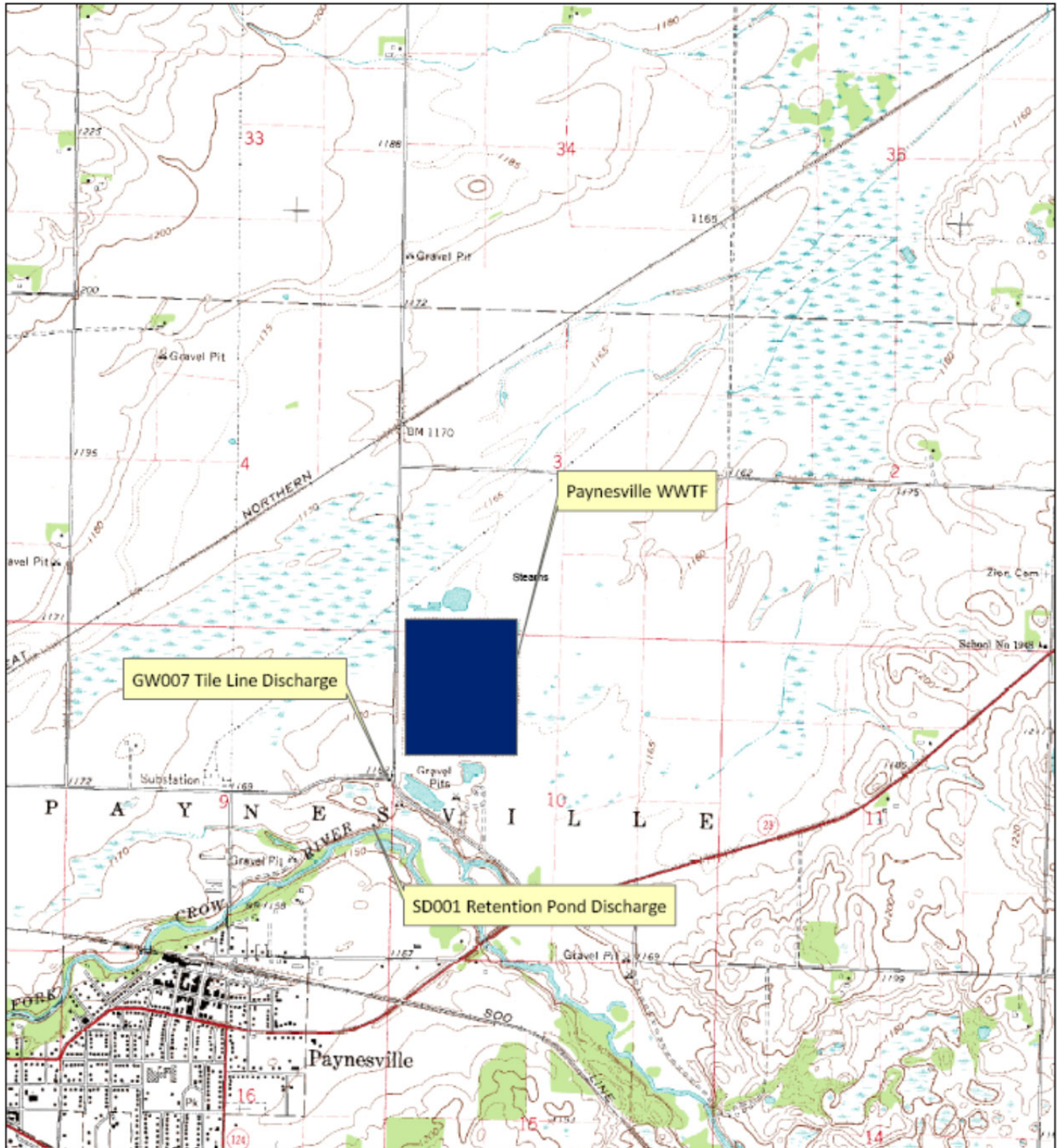
Following the Facility's aerated pond, further treatment will occur with solids stabilization and separation occurring in the stabilization ponds. The residual solids may require periodic dredging to prevent accumulation in the primary ponds. The Permittee plans to clean the solids out of the primary ponds every 10 to 15 years. The Permittee is responsible for the proper handling and disposal of its biosolids. The Permittee is required to work with a Type IV certified operator, use approved land application sites and follow the requirements of Minnesota Rules Chapter 7041.

There are no bypass or overflow points known to exist in the disposal system.

The location of the Facility is shown on the "Topographic Map of Permitted Facility" on page 5. The location of designated monitoring stations is specified on the "Summary of Stations" on pages 6-7.

Topographic Map of Permitted Facility

MN0020168, City of Paynesville WWTF
 T122N, R1032W, Section 10 & 3
 Paynesville Township, Stearns County, Minnesota



Map produced by: MPCA Staff, 5/17/11
 Source: USGS Paynesville Quad
 Scale: 1:24,000

0 0.15 0.3 0.6 Miles



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<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
LA301	Application Site, Spray with Soils Tests	Site #2	Section 3, Township 122 North, Range 32 West
LA302	Application Site, Spray with Soils Tests	Site #3	Section 3, Township 122 North, Range 32 West
LA303	Application Site, Spray with Soils Tests	Site #6	Section 11, Township 122 North, Range 32 West
LA304	Application Site, Spray with Soils Tests	Site #8	Section 11, Township 122 North, Range 32 West
LA306	Application Site, Spray with Soils Tests	Site #11	NE Quarter of the Section 10, Township 122 North, Range 32 West
LA307	Application Site, Spray with Soils Tests	Site #12	Section 10, Township 122 North, Range 32 West
LA308	Application Site, Spray with Soils Tests	Site #14	SE Quarter of the Section 33, Township 123 North, Range 32 West
LA309	Application Site, Spray with Soils Tests	Site #15	NE Quarter of the Section 33, Township 123 North, Range 32 West
LA310	Application Site, Spray with Soils Tests	Site #15C	NE Quarter of the Section 33, Township 123 North, Range 32 West
LA311	Application Site, Spray with Soils Tests	Site #17C	SW Quarter of the Section 33, Township 123 North, Range 32 West
LA312	Application Site, Spray with Soils Tests	Site #20	Section 33, Township 123 North, Range 32 West
LA313	Application Site, Spray with Soils Tests	Site #20 - CRP	Section 33, Township 123 North, Range 32 West
LA314	Application Site, Spray with Soils Tests	Site #19A	NW Quarter of the SW Quarter of the Section 34, Township 123 North, Range 32 West
LA315	Application Site, Spray with Soils Tests	Site #19B	NE Quarter of the SW Quarter of the Section 34, Township 123 North, Range 32 West
LA316	Application Site, Spray with Soils Tests	Site #21	SW Quarter of the Section 27, Township 123 North, Range 32 West

Ground Water Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
GW001	Well, Upgradient	Ground Water Monitoring Well 1	Section 3, Township 122 North, Range 32 West
GW002	Well, Other	Ground Water Monitoring Well 2	Section 3, Township 122 North, Range 32 West
GW004	Well, Downgradient	Ground Water Monitoring Well 4	Section 3, Township 122 North, Range 32 West
GW005	Well, Downgradient	Ground Water Monitoring Well 5	Section 3, Township 122 North, Range 32 West
GW006	Well, Upgradient	Ground Water Monitoring Well 6	Section 3, Township 122 North, Range 32 West
GW007	Tile Line Monitoring	Tile Line Around the Aerated Pond	Section 3, Township 122 North, Range 32 West

Surface Discharge Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
SD001	Effluent To Surface Water	Retention Basin	Section 9, Township 122 North, Range 32 West

Surface Water Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
SW001	Stream/River/Ditch, Upstream	Lake Street in Paynesville	Section 9, Township 122 North, Range 32 West
SW002	Stream/River/Ditch, Downstream	MN Highway 23	SW Quarter of Section 10, Township 122 North, Range 32 West

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Waste Stream Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
WS001	Influent Waste	Influent Waste Stream	Section 3, Township 122 North, Range 32 West
WS002	Intermediate: WW to Land	Effluent prior to spray irrigation sites	Section 3, Township 122 North, Range 32 West
WS003	Intermediate: WW to Land	Site #2 - 65 Acres	Section 3, Township 122 North, Range 32 West
WS004	Intermediate: WW to Land	Site #3 - 139 Acres	
WS005	Intermediate: WW to Land	Site #6 - 69 Acres	Section 11, Township 122 North, Range 32 West
WS006	Intermediate: WW to Land	Site #8 - 85 Acres	Section 11, Township 122 North, Range 32 West
WS008	Intermediate: WW to Land	Site #11 - 93.0 Acres	NE Quarter of Section 10, Township 122 North, Range 32 West
WS009	Intermediate: WW to Land	Site #12 - 42 Acres	NE Quarter of the SE Quarter of Section 10, Township 122 North, Range 32 West
WS010	Intermediate: WW to Land	Site #14 - 135 Acres	SE Quarter of Section 33, Township 123 North, Range 32 West
WS011	Intermediate: WW to Land	Site #15 - 68 Acres	NE Quarter of Section 33, Township 123 North, Range 32 West
WS012	Intermediate: WW to Land	Site #15C - 52 Acres	NE Quarter of Section 33, Township 123 North, Range 32 West
WS013	Intermediate: WW to Land	Site #17C - 120 Acres	SW Quarter of Section 33, Township 123 North, Range 32 West
WS014	Intermediate: WW to Land	Site #20 - 45 Acres	Section 33, Township 123 North, Range 32 West
WS015	Intermediate: WW to Land	Site #20 CRP - 65 Acres	Section 33, Township 123 North, Range 32 West
WS016	Intermediate: WW to Land	Site #19A -9.8 Acres	NW Quarter of the SW Quarter of Section 34, Township 123 North, Range 32 West
WS017	Intermediate: WW to Land	Site #19B - 18.9 Acres	NE Quarter of the SW Quarter of Section 34, Township 123 North, Range 32 West
WS018	Intermediate: WW to Land	Site #21 - 124 Acres	SW Quarter of Section 27, Township 123 North, Range 32 West

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The Permittee shall comply with the limits and monitoring requirements as specified below.

GW 001: Ground Water Monitoring Well 1

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Single Value	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	5
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
pH	Monitor Only	SU	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Specific Conductance, Field	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Temperature, Water (C)	Monitor Only	Deg C	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

GW 002: Ground Water Monitoring Well 2

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Single Value	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	5
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
pH	Monitor Only	SU	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Specific Conductance, Field	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Temperature, Water (C)	Monitor Only	Deg C	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

GW 004: Ground Water Monitoring Well 4

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Single Value	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	5
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
pH	Monitor Only	SU	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

GW 004: Ground Water Monitoring Well 4

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Specific Conductance, Field	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Temperature, Water (C)	Monitor Only	Deg C	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

GW 005: Ground Water Monitoring Well 5

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Single Value	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	5
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
pH	Monitor Only	SU	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Specific Conductance, Field	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Temperature, Water (C)	Monitor Only	Deg C	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

GW 006: Ground Water Monitoring Well 6

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Single Value	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	5
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	4
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	1
pH	Monitor Only	SU	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Specific Conductance, Field	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	1
Temperature, Water (C)	Monitor Only	Deg C	Single Value	Apr, Jul, Oct	Grab	1 x Month	1

GW 007: Tile Line Around the Aerated Pond

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Single Value	Apr, Jul, Oct	Grab	1 x Month	
Fecal Coliform, MPN or Membrane Filter 44.5C	Monitor Only	#100ml	Single Value	Apr, Jul, Oct	Grab	1 x Month	

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

GW 007: Tile Line Around the Aerated Pond

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Specific Conductance	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	

LA 301: Site #2

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 302: Site #3

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 303: Site #6

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

Paynesville Wastewater Treatment Facility

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

LA 304: Site #8

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 306: Site #11

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 307: Site #12

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 308: Site #14

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10

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The Permittee shall comply with the limits and monitoring requirements as specified below.

LA 308: Site #14

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH4AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 309: Site #15

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH4AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 310: Site #15C

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH4AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 311: Site #17C

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17

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The Permittee shall comply with the limits and monitoring requirements as specified below.

LA 311: Site #17C

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 312: Site #20

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 313: Site #20 - CRP

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 314: Site #19A

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

LA 314: Site #19A

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 315: Site #19B

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

LA 316: Site #21

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Nitrogen, Total Annual Loading Rate	200	lbacyr	Calendar Year Total Intervention	Apr-Nov	Calculation	1 x Year	18
Organic Matter, Total In Soil	Monitor Only	%	Single Value	Apr-Nov	Composite	1 x Year	10
pH	Monitor Only	SU	Single Value	Apr-Nov	Composite	1 x Year	10
Phosphorus, BRAY-1 Ext In Soil	200	ppm	Single Value	Apr-Nov	Composite	1 x Year	17
Potassium, NH ₄ AC, Exch In Soil	Monitor Only	lb/acr	Single Value	Apr-Nov	Composite	1 x Year	10
Salts, Water Soluble In Soil	3	mmh/cm	Single Value	Apr-Nov	Composite	1 x Year	10

SD 001: Retention Basin

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	139	kg/day	Calendar Month Average	Jan-Dec	Grab	1 x Week	12
BOD, Carbonaceous 05 Day (20 Deg C)	25	mg/L	Calendar Month Average	Jan-Dec	Grab	1 x Week	12
BOD, Carbonaceous 05 Day (20 Deg C)	222	kg/day	Maximum Calendar Week Average	Jan-Dec	Grab	1 x Week	12
BOD, Carbonaceous 05 Day (20 Deg C)	40	mg/L	Maximum Calendar Week Average	Jan-Dec	Grab	1 x Week	12
Fecal Coliform, MPN or Membrane Filter 44.5C	200	#100ml	Calendar Month Geometric Mean	Apr-Oct	Grab	1 x Week	3
Flow	Monitor Only	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	11
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

SD 001: Retention Basin

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Oxygen, Dissolved	Monitor Only	mg/L	Calendar Month Minimum	Jan-Dec	Grab	1 x Week	15
pH	9.0	SU	Calendar Month Maximum	Jan-Dec	Grab	1 x Week	16
pH	6.0	SU	Calendar Month Minimum	Jan-Dec	Grab	1 x Week	16
Phosphorus, Total (as P)	6	kg/day	Calendar Month Average	Jan-Dec	Grab	1 x Week	13
Phosphorus, Total (as P)	1.0	mg/L	Calendar Month Average	Jan-Dec	Grab	1 x Week	13
Solids, Total Suspended (TSS)	249	kg/day	Calendar Month Average	Jan-Dec	Grab	1 x Week	14
Solids, Total Suspended (TSS)	45	mg/L	Calendar Month Average	Jan-Dec	Grab	1 x Week	14
Solids, Total Suspended (TSS)	360	kg/day	Maximum Calendar Week Average	Jan-Dec	Grab	1 x Week	14
Solids, Total Suspended (TSS)	65	mg/L	Maximum Calendar Week Average	Jan-Dec	Grab	1 x Week	14

SW 001: Lake Street in Paynesville

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Oxygen, Dissolved	Monitor Only	mg/L	Calendar Month Minimum	Jun-Sep	Grab	2 x Week	9
Temperature, Water (C)	Monitor Only	Deg C	Calendar Month Average	Jun-Sep	Grab	2 x Week	8

SW 002: MN Highway 23

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Oxygen, Dissolved	Monitor Only	mg/L	Calendar Month Minimum	Jun-Sep	Grab	2 x Week	9
Temperature, Water (C)	Monitor Only	Deg C	Calendar Month Average	Jun-Sep	Grab	2 x Week	8

WS 001: Influent Waste Stream

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	4-Hour Flow Composite	1 x Quarter	
Flow	Monitor Only	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	mgd	Calendar Month Maximum	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	
pH	Monitor Only	SU	Calendar Quarter Maximum	Jan-Dec	Grab	1 x Quarter	2
Precipitation	Monitor Only	in	Calendar Month Total	Jan-Dec	Measurement	1 x Day	

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

WS 001: Influent Waste Stream

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	4-Hour Flow Composite	1 x Quarter	

WS 002: Effluent prior to spray irrigation sites

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Single Value	Jan-Dec	Grab	1 x Month	7
Fecal Coliform, MPN or Membrane Filter 44.5C	200	#100ml	Single Value	Jan-Dec	Grab	1 x Month	7
Flow	327	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Single Value	Jan-Dec	Grab	1 x Month	7
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Single Value	Jan-Dec	Grab	1 x Month	7
Nitrogen, Nitrate, Total (as N)	Monitor Only	mg/L	Single Value	Jan-Dec	Grab	1 x Month	7
pH, Field	Monitor Only	SU	Single Value	Jan-Dec	Grab	1 x Month	7
Specific Conductance	Monitor Only	umh/cm	Single Value	Jan-Dec	Grab	1 x Month	7

WS 003: Site #2 - 65 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	65	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 004: Site #3 - 139 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	139	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

WS 005: Site #6 - 69 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	69	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 006: Site #8 - 85 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	85	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 008: Site #11 - 93.0 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	93.0	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 009: Site #12 - 42 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	42.0	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 010: Site #14 - 135 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	135	acres	Single Value	Jan-Dec	Measurement	1 x Day	6

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

WS 010: Site #14 - 135 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 011: Site #15 - 68 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	68	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 012: Site #15C - 52 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	52	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 013: Site #17C - 120 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	120	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 014: Site #20 - 45 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	45	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

WS 014: Site #20 - 45 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 015: Site #20 CRP - 65 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	65	acres	Single Value	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	0	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 016: Site #19A -9.8 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	39.8	acres	Calendar Month Total	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 017: Site #19B - 18.9 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	18.9	acres	Calendar Month Total	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

WS 018: Site #21 - 124 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Area Of Disposal, Used	124	acres	Calendar Month Total	Jan-Dec	Measurement	1 x Day	6
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	6
Flow	Monitor Only	MG	Calendar Year To Date Total	Jan-Dec	Measurement, Continuous	1 x Day	6

Paynesville Wastewater Treatment Facility

Limits and Monitoring Requirements

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The Permittee shall comply with the limits and monitoring requirements as specified below.

WS 018: Site #21 - 124 Acres

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Flow	Monitor Only	MG	Calendar Month Total Intervention	Dec-Mar	Measurement, Continuous	1 x Day	6

Notes:

- 1 -- 1. Grab samples must be collected at all ground water monitoring points (lysimeters or wells) after stabilization tests are conducted. 2. If the analytical results are above applicable drinking water standards, further testing will be required.
- 2 -- Analyze immediately.
- 3 -- Applicable from April 1 - October 31. The retention pond contents shall be tested for fecal coliform prior to and during discharge.
- 4 -- Grab samples must be collected at all ground water monitoring points (lysimeters or wells) after stabilization tests are conducted.
- 5 -- Prior to pumping or bailing of a monitoring well, the water elevation must be measured and recorded to the nearest 0.01 foot.
- 6 -- Required only during periods of discharge to the irrigation site. "No Discharge" should be noted otherwise.
- 7 -- Required only during periods of discharge to the irrigation site. "No Discharge" should be noted otherwise. Sample should be representative of total flow to the irrigation site.
- 8 -- Sample whenever retention basin effluent CBOD5 exceeds 15 mg/l. Sampling shall continue 2 weeks after last effluent CBOD5 value exceeding 15 mg/l or September 30, whichever comes first. Samples shall be collected between 7:00am and 9:00am.
- 9 -- Sample whenever retention basin effluent CBOD5 exceeds 15 mg/l. Sampling shall continue two weeks after last effluent CBOD5 exceeding 15 mg/l or September 30, whichever is first. Samples shall be collected between 7:00am and 9:00am. Analyze immed
- 10 -- Soil testing must be conducted on each site that is used for land application before the site is used for the first time and each cropping year a site is used. The composite sample shall consist of a mixture of 15-20 sub-samples taken in the plow layer for every 40 acres.
- 11 -- The discharge shall be limited by the Permittee using a maximum drawdown rate of six (6) inches per day from the 9-acre retention basin (for calculating the kg/day loadings).
- 12 -- The retention pond contents shall be tested for CBOD5 prior to discharge and during discharge.
- 13 -- The retention pond contents shall be tested for Phosphorus prior to and during discharge.
- 14 -- The retention pond contents shall be tested for TSS prior to and during discharge.
- 15 -- The retention pond contents shall be tested for dissolved oxygen prior to and during discharge.
- 16 -- The retention pond contents shall be tested for pH prior to and during discharge.
- 17 -- The soil test method used for extractable phosphorus in soil is either the Bray P-1 test, or the Olson test; the Olson procedure should be used if the soil pH is 7.4 or higher. Soil testing must be conducted on each site that is used for land application before the site is used for the first time and each cropping year a site is used. The composite sample shall consist of a mixture of 15-20 sub-samples taken in the plow layer for every 40 acres.
- 18 -- This value is calculated as the flow-weighted sum of the total annual mass Kjeldahl nitrogen and nitrate-plus-nitrite nitrogen applied to the site, divided by the acreage of the site. Limit applies to the sum of all sources of nitrogen applied to the site.

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Chapter 1. Special Requirements

1. Construction Schedule

Definitions

- 1.1 "Initiation of operation" means the date that MPCA determines all components of the the wastewater treatment system are complete and functioning and the project begins operating for the purposes for which it was planned, designed, and built.
- 1.2 "Completion of construction" means all the construction is complete except for minor weather-related components and conforms to the approved plans and specifications and change orders.
- 1.3 "Notice to proceed" means a written notice given by the Permittee to the contractor that affixes the contract effective date and the date that the contractor begins performing the work specified in the contract documents.

Schedule

- 1.4 Submit Notice to Proceed. The Permittee must submit a copy of the Notice to Proceed to the MPCA within 14 days of its execution.
- 1.5 Submit Operation and Maintenance (O & M) Manual. At least 60 days before the planned initiation of operation of the upgraded facility, the Permittee shall submit an O & M Manual or a maintenance plan; or a certificate of completion of an O & M Manual.
- 1.6 Submit Notice of Intent to Initiate Operation. The Permittee must notify the MPCA in writing at least 14 days before the planned initiation of operation date. Following MPCA staff concurrence that the facility is adequately prepared, MPCA staff will notify the Permittee that it may initiate operation of the new or upgraded facility.
- 1.7 Submit Initiation of Operation Date. The Permittee must notify the MPCA in writing within 14 days after the actual initiation of operation date. The Permittee must comply with all permit requirements and attain final limits within 90 days of the Initiation of Operation date.
- 1.8 Submit Notice to Complete Construction. The Permittee must notify the MPCA in writing at least 14 days before the planned completion of construction date. The MPCA may complete a final inspection.
- 1.9 Submit Final Technical Documents. The Permittee must submit the following to the MPCA within one year after the initiation of operation date:
 - a. An MPCA-approved certification form that is signed by a professional engineer registered in the state of Minnesota stating that the project meets the performance standards.
 - b. A revised operation and maintenance manual or a maintenance plan; or a certificate of completion of an operation and maintenance manual on a form prescribed by the MPCA. At a minimum, this plan must include a detailed discussion of operation and controls, maintenance, sampling and analysis, problem mitigation, VOC management, personnel records and reporting, and safety. This plan must be maintained and updated regularly and made available to the MPCA staff upon request.
 - c. One copy of as-built plans and specifications, also known as record drawings, must be submitted in a format approved by the MPCA. The factsheet titled: Wastewater Treatment Facility Construction Record Documents, As-built Submittal Requirements contains specific information regarding the required format of the submittal. The document is located on the MPCA web page at:
<http://www.pca.state.mn.us/index.php/view-document.html?gid=15492>.

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Chapter 2. Ground Water Stations

1. Special Requirements

- 1.1 Samples for Station GW007 shall be taken at a point representative of the discharge from the tile line.

2. Monitoring Wells

- 2.1 The Permittee shall install, maintain and abandon groundwater monitoring wells according to the Minnesota Water Well Construction Code, Minnesota Rules, ch. 4725. Damaged or improperly constructed monitoring wells shall be repaired or properly abandoned and replaced. Information on licensed water well contractors is available from the Minnesota Department of Health.
- 2.2 The Permittee shall submit a detailed monitoring well log for each monitoring well at the facility and a detailed US Geological Survey topographical map identifying the location of each well.
- 2.3 Each monitoring well shall be clearly numbered on the outside of the well with either indelible paint or an inscribed number.
- 2.4 The monitoring wells shall be sampled in accordance with "Minnesota Pollution Control Agency, Water Quality Division: Sampling Protocol for Ground Water Monitoring Wells, July 1997," Triplett, et. al. Copies of this publication are available on the internet at <http://www.pca.state.mn.us/water/groundwater/wqsampling.html> or may be obtained from the MPCA by calling 651-282-6143 or 800-657-3938.
- 2.5 Prior to well purging and sampling, depths to groundwater shall be measured to the nearest 0.01 foot below the top of the well casing, and groundwater elevations shall be reported to the nearest 0.01 foot above mean sea level.
- 2.6 Temperature, specific conductance and pH shall be reported as the final field measurements from well stabilization.

3. Requirements for Specific Stations

- 3.1 GW 001, GW 002, GW 004, GW 005, GW 006, GW 007: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

Chapter 3. Surface Discharge Stations

1. Requirements for Specific Stations

- 1.1 SD 001: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

2. Sampling Location

- 2.1 Samples for Station SD001 shall be taken at a point representative of the discharge from the retention basin.
- 2.2 Samples and measurements required by this permit shall be representative of the monitored activity.

3. Surface Discharges

- 3.1 Floating solids or visible foam shall not be discharged in other than trace amounts.
- 3.2 Oil or other substances shall not be discharged in amounts that create a visible color film.
- 3.3 The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion.

4. Discharges From Tile Lines

- 4.1 The Permittee shall begin sampling at the frequencies noted two weeks prior to wastewater or waste application to the site, during periods of application, and continuing for two weeks after waste application ends.

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Chapter 3. Surface Discharge Stations

5. Discharge Monitoring Reports

- 5.1 The Permittee shall submit monitoring results for discharges in accordance with the limits and monitoring requirements for this station. If no discharge occurred during the reporting period, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR).

Chapter 4. Surface Water Stations

1. Requirements for Specific Stations

- 1.1 SW 001, SW 002: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

2. Discharge Monitoring Reports

- 2.1 The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If flow conditions are such that no sample could be acquired, the Permittee shall check the "No Flow" box and note the conditions on the Discharge Monitoring Report (DMR).

3. Sampling Location

- 3.1 Samples for Stations SW001 and SW002 shall be taken at midstream, mid-depth. Surface water monitoring at SW001 and SW002 is required whenever the summer (June, July, August and September) CBOD5 effluent monitoring results from the retention basin exceeds 15 mg/L. Monitoring shall continue for two weeks after the last effluent CBOD5 value exceeding 15 mg/L or the end of the summer, whichever comes first. The samples shall be collected between 7:00 AM and 9:00 AM.
- 3.2 Record location, date, time and results for each sample on the supplemental Discharge Monitoring Report form.

4. Sampling Protocol

- 4.1 All instruments used for field measurements shall be maintained and calibrated to insure accuracy of measurements.
- 4.2 Sample water shall be preserved according to lab instructions and delivered to a certified lab within the minimum holding times.

Chapter 5. Waste Stream Stations

1. Requirements for Specific Stations

- 1.1 WS 001, WS 002, WS 003, WS 004, WS 005, WS 006, WS 008, WS 009, WS 010, WS 011, WS 012, WS 013, WS 014, WS 015, WS 016, WS 017, WS 018: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

2. Sampling Location

- 2.1 Grab and composite samples for Station WS001 shall be collected at a point representative of total influent flow to the system. Samples shall be collected prior to the primary stabilization pond.
- 2.2 Samples for Station WS002 shall be taken at a point representative of the effluent prior to the spray irrigation sites.
- 2.3 Samples for Stations WS003 - WS018 shall be measured at each individual spray irrigation site.

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Chapter 6. Spray Irrigation/Soils

1. Sampling Location

- 1.1 Samples for Stations LA301 - LA316 shall be taken at each individual spray irrigation sites.

2. Soil Samples

- 2.1 Soil samples shall be taken in the spring before the first irrigation and before the first application of commercial or other supplemental fertilizer for that year.
- 2.2 Soil samples shall be a composite of a mixture of 15 to 20 equally proportioned subsamples taken from a 0- to 8-inch core. At least one composite sample shall be collected for each 40 acres on the permitted land application site.

3. Application Rates

- 3.1 Nitrogen and sodium land application rate limits apply to the sum of all sources of nitrogen or sodium applied to a permitted application site.
- 3.2 If nitrogen or sodium are applied to a permitted land application site from other sources including commercial fertilizer, manure, silage, sewage or wastewater treatment solids and sludges, then these other nitrogen or sodium sources shall be included in the sum of nitrogen or sodium applied to determine compliance with application rate limits at that site.
- 3.3 The nitrogen application rate shall be calculated as the sum of the total annual mass Kjeldahl nitrogen and nitrate-plus-nitrite nitrogen applied to the site, divided by the acreage of the site.

Chapter 7. Domestic Wastewater -- Pond System

1. Bypass Structures

- 1.1 All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times.

2. Sanitary Sewer Extension Permit

- 2.1 The Permittee may be required to obtain a Sanitary Sewer Extension Permit from the MPCA prior to the start of construction of any addition, extension or replacement to the sanitary sewer. If a sewer extension permit is required, no construction of any part of the system may begin until that permit has been issued.

3. Operator Certification

- 3.1 The Permittee shall provide a Class B 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.
- 3.2 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.
- 3.3 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.
- 3.4 The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status.

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Chapter 7. Domestic Wastewater -- Pond System

4. Ponds - Observations

- 4.1 The Permittee shall inspect the pond system weekly, and shall take measurements of pond water depth, estimate the coverage of aquatic plants, floating mats and ice cover on the surface of the ponds, and note odors, the condition of the dikes and the presence of muskrats. The Permittee shall maintain records of these weekly inspections for the last three (3) years, and submit the results on the Discharge Monitoring Report (DMR) supplemental form.
- 4.2 The Permittee shall maintain daily precipitation records.

Chapter 8. Domestic Spray Irrigation

1. Authorization

- 1.1 This chapter authorizes the Permittee to apply treated wastewater, as described in the 'Facility Description' section of this permit, to land application sites using a spray irrigation system. This activity is limited by the 'Limits and Monitoring' section of this permit, as well as the other terms and conditions of this permit.

2. Wastewater Land Application System Management

- 2.1 The wastewater flow to a land application site shall not have physical or chemical characteristics that prevent the proper operation of the land disposal system. The wastewater shall be free of material that interferes with the operation of nozzles, orifices or flow measurement devices.
- 2.2 Wastewater shall be applied so as not to harm vegetation and so that prolonged saturated soil conditions do not develop due to the application. Wastewater shall not be applied during precipitation periods.
- 2.3 A cover crop shall be maintained on the sprayfield during the entire application season unless otherwise approved by the MPCA.
- 2.4 Wastewater shall not be applied after the cover crop has become dormant as a result of frost or below freezing temperatures.
- 2.5 The Permittee shall prevent the surface runoff of wastewater, and precipitation runoff mixed with wastewater, from the land application site(s). The Permittee shall provide runoff collection and re-application systems as appropriate to prevent the discharge of surface runoff.
- 2.6 If odor or aerosol drift resulting from operation of the wastewater disposal system creates a nuisance condition, the Permittee shall immediately take appropriate action to control or abate the odor or aerosol drift. The Permittee shall notify the MPCA of a nuisance condition within five (5) days of discovery.
- 2.7 Best management practices shall be utilized for all crops. The Permittee shall utilize the facility's Operation and Maintenance Manual, the Sprayfield Management Plan, and the most recent recommendations of the Minnesota Extension Service, University of Minnesota, for managing nitrogen for crop production on irrigated soils. Soil test results shall also be utilized for fertilizer recommendations.
- 2.8 If any changes are made to the facilities permitted spray irrigation site the Permittee is required to notify the MPCA and update the facilities sprayfield management plan. This plan must be kept on-site and made available upon MPCA request.

3. Reporting

- 3.1 Submit a Land Application of Wastewater Annual Report by January 21 of each year following permit issuance.

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Chapter 8. Domestic Spray Irrigation

3. Reporting

3.2 The Land Application of Wastewater Annual Report must include the following information:

- a. A description of the treatment system, including any changes made during the year.
- b. A description of system operation during the past year, including the following:
 - i. nutrient and hydraulic loading;
 - ii. irrigation scheduling and intensity;
 - iii. crop harvesting; and
 - iv. problems encountered and any remedial actions.
- c. A description of system maintenance during the past year, including the following:
 - i. crop types and yields; and
 - ii. irrigation equipment.
- d. A summarization of monitoring results obtained during the past year from the soil monitoring requirements.
- e. An analysis of the information submitted, and recommendations for changes, including the following:
 - i. analysis of the year's operation; and
 - ii. proposed changes for the coming year's operation.

Chapter 9. Domestic Wastewater -- Pretreatment

1. Pretreatment - Definitions

- 1.1 An "Individual Control Mechanism" is a document, such as an agreement or permit, that imposes limitations or requirements on an individual industrial user of the POTW.
- 1.2 "Significant Industrial User" (SIU) means any industrial user that:
 - a. discharges 25,000 gallons per day or more of process wastewater;
 - b. contributes a load of five (5) % or more of the capacity of the POTW; or
 - c. is designated as significant by the Permittee or the MPCA on the basis that the SIU has a reasonable potential to adversely impact the POTW, or the quality of its effluent or residuals. (Minn. R. 7049.0120, Subp. 24)

2. Pretreatment - Permittee Responsibility to Control Users

- 2.1 It is the Permittee's responsibility to regulate the discharge from users of its wastewater treatment facility. The Permittee shall prevent any pass through of pollutants or any inhibition or disruption of the Permittee's facility, its treatment processes, or its sludge processes or disposal that contribute to the violation of the conditions of this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. (Minn. R. 7049.0600)

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Chapter 9. Domestic Wastewater -- Pretreatment

2. Pretreatment - Permittee Responsibility to Control Users

2.2 The Permittee shall prohibit the discharge of the following to its wastewater treatment facility:

- a. pollutants which create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F);
- b. pollutants which would cause corrosive structural damage to the POTW, including any waste stream with a pH of less than 5.0;
- c. solid or viscous pollutants which would obstruct flow;
- d. heat that would inhibit biological activity, including any discharge that would cause the temperature of the waste stream at the POTW treatment plant headworks to exceed 40 degrees C (104 degrees F);
- e. pollutants which produce toxic gases, vapors, or fumes that may endanger the health or safety of workers; or
- f. any pollutant, including oxygen demanding pollutants such as biochemical oxygen demand, released at a flow rate or pollutant concentration that will cause interference or pass through. (Minn. R. 7049.0140)

2.3 The Permittee shall prohibit new discharges of non-contact cooling waters unless there is no cost effective alternative. Existing discharges of non-contact cooling water to the Permittee's wastewater treatment facility shall be eliminated, where elimination is cost-effective, or where an infiltration/inflow analysis and sewer system evaluation survey indicates the need for such removal.

2.4 If the Permittee accepts trucked-in wastes, the Permittee shall evaluate the trucked in wastes prior to acceptance in the same manner as it monitors sewered wastes. The Permittee shall accept trucked-in wastes only at specifically designated points. (Minn. R. 7049.0140, Subp. 4)

2.5 Pollutant of concern means a pollutant that is or may be discharged by an industrial user that is, or reasonably should be of concern on the basis that it may cause the permittee to violate any permit limits on the release of pollutants. The following pollutants shall be evaluated to determine if they should be pollutants of concern: pollutants limited in this permit, pollutants for which monitoring is required in this permit, pollutants that are likely to cause inhibition of the Permittee's POTW, pollutants which may interfere with sludge disposal, pollutants for which the Permittee's treatment facility has limited capacity. (Minn. R. 7049.0120, Subp. 13)

3. Control of Significant Industrial Users

3.1 The Permittee shall impose pretreatment requirements on SIUs which will ensure compliance with all applicable effluent limitations and other requirements set forth in this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. These requirements shall be applied to SIUs by means of an individual control mechanism. (Minn. R. 7049.0600)

3.2 The Permittee shall not knowingly enter into an individual control mechanism with any user that would allow the user to contribute an amount or strength of wastewater that would cause violation of any limitation or requirement in the permit, or any applicable federal, state or local law or regulation. (Minn. R. 7049.0600 Subp. 3)

4. Monitoring of Significant Industrial Users

4.1 The Permittee shall obtain from SIUs specific information on the quality and quantity of the SIU's discharges to the Permittee's POTW. Except where specifically requested by the Permittee and approved by the MPCA, this information shall be obtained by means of representative monitoring conducted by the Permittee or by the SIU under requirements imposed by the Permittee in the SIU's individual control mechanism. Monitoring performed to comply with this requirement shall include all pollutants for which the SIU is significant and shall be done at a frequency commensurate with the significance of the SIU. (Minn. R. 7049.0710)

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Chapter 9. Domestic Wastewater -- Pretreatment

5. Reporting and Notification

- 5.1 If a SIU discharges to the POTW during a given calendar year, the Permittee shall submit a Pretreatment Annual Report for that calendar year, due by January 31 of the following year. The Pretreatment Annual Report shall be submitted on forms provided by the agency or shall provide equivalent information.

The Permittee shall submit the pre-treatment report to the following address:

MPCA
Attn: WQ Submittals Center
520 Lafayette Road North
St. Paul, Minnesota 55155-4194 (Minn. R. 7049.0720)

- 5.2 The Permittee shall notify the MPCA in writing of any:

- a. SIU of the Permittee's POTW which has not been previously disclosed to the MPCA;
- b. anticipated or actual changes in the volume or quality of discharge by an industrial user that could result in the industrial user becoming an SIU as defined in this chapter; or
- c. anticipated or actual changes in the volume or quality of discharges by a SIU that would require changes to the SIU's required local limits.

This notification shall be submitted within 30 days of identifying the IU as a SIU. Where changes are proposed, they must be submitted prior to changes being made. (Minn. R. 7049.0700, Subp. 1)

- 5.3 Upon notifying the MPCA of a SIU or change in a SIU discharge as required above, the Permittee shall submit the following information on forms provided by the agency or in a comparable format:

- a. the identity of the SIU and a description of the SIU's operation and process;
- b. a characterization of the SIU's discharge;
- c. the required local limits that will be imposed on the SIU;
- d. a technical justification of the required local limits; and
- e. a plan for monitoring the SIU which is consistent with monitoring requirements in this chapter. (Minn. R. 7049.0700)

- 5.4 In addition, the Permittee shall, upon request, submit the following to the MPCA for approval:

- a. additional information on the SIU, its processes and discharge;
- b. a copy of the individual control mechanism used to control the SIU;
- c. the Permittee's legal authority to be used for regulating the SIU; and
- d. the Permittee's procedures for enforcing the requirements imposed on the SIU. (Minn. R. 7049.0700, Subp. 3)

- 5.5 The permittee shall notify MPCA of any of its industrial users that may be subject to national categorical pretreatment standards.

- 5.6 This permit may be modified in accordance with Minnesota Rules, ch. 7001 to require development of a pretreatment program approvable under the Federal General Pretreatment Regulation (40 CFR 403).

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Chapter 10. Total Facility Requirements

1. General Requirements

General Requirements

- 1.1 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. Sec. 115 and 116.
- 1.2 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, item E)
- 1.3 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, item A)
- 1.4 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)
- 1.5 Property Rights. This permit does not convey a property right or an exclusive privilege. (Minn. R. 7001.0150, subp. 3, item C)
- 1.6 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, item O)
- 1.7 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, item D)
- 1.8 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, item A)
- 1.9 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, item B)
- 1.10 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.
- 1.11 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.
- 1.12 Inspection and Entry. When authorized by Minn. Stat. Sec. 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, item I)

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.13 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.

Sampling

- 1.14 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))
- 1.15 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, item E)
- 1.16 Certified Laboratory. A laboratory certified by the Minnesota Department of Health shall conduct analyses required by this permit. Analyses of dissolved oxygen, pH, temperature 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. Stat. Sec. 144.97 through 144.98 and Minn. R. 4740.2010 and 4740.2050 through 4740.2120) (Minn. R. 4740.2010 and 4740.2050 through 2120)
- 1.17 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.
- 1.18 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, subp. 2, items B and C)
- 1.19 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 (Minn. R. 7001.0150, subp. 2, item C):
- 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; and
 - d. The analytical techniques, procedures and methods used; and
 - e. The results of the analysis.

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.20 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. (Minn. R. 7001.1090, subp. 1, item D; Minn. R. 7001.0150, subp. 2, item B)

Required forms may include:

DMR Supplemental Form

Individual values for each sample and measurement must be recorded on the DMR Supplemental Form which, if required, will be provided by the MPCA. DMR Supplemental Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it must be approved by the MPCA. Note: Required summary information **MUST** also be recorded on the DMR. Summary information that is submitted **ONLY** on the DMR Supplemental Form does not comply with the reporting requirements.

- 1.21 Submitting Reports. DMRs and DMR Supplemental Forms shall be submitted to:

MPCA

Attn: Discharge Monitoring Reports
520 Lafayette Road North
St. Paul, Minnesota 55155-4194.

DMRs and DMR Supplemental Forms shall be postmarked by 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. (Minn. R. 7001.0150, subps. 2.B and 3.H)

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

- 1.22 Incomplete or Incorrect Reports. The Permittee shall immediately submit an 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. (Minn. R. 7001.0150 subp. 3, item G)
- 1.23 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 must 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, must be certified by a registered professional engineer. (Minn. R. 7001.0540)

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.24 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. (Minn. R. 7001.0150, subp. 2, item B)

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:

- 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, subp. 2, item B)
- 1.25 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, subp. 3, item H)
- 1.26 Confidential Information. Except for data determined to be confidential according to Minn. Stat. Sec. 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 must follow Minn. R. 7000.1300.

Noncompliance and Enforcement

- 1.27 Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. Sec. 115.071 and 116.072, including monetary penalties, imprisonment, or both. (Minn. R. 7001.1090, subp. 1, item B)
- 1.28 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, subp. 3, item G., 7001.1090, subps. 1, items G and H and Minn. Stat. Sec. 609.671)
- 1.29 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))

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.30 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:
- a. a description of the event including volume, duration, monitoring results and receiving waters;
 - b. the cause of the event;
 - c. the steps taken to reduce, eliminate and prevent reoccurrence of the event;
 - d. the exact dates and times of the event; and
 - e. steps taken to reduce any adverse impact resulting from the event. (Minn. R. 7001.0150, subp. 3k).
- 1.31 Unauthorized Releases of Wastewater Prohibited. Except for conditions specifically described in Minn. R. 7001.1090, subp. 1, items J and K, all unauthorized bypasses, 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 and Minn. Stat. Sec 115.061)

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Chapter 10. Total Facility Requirements

1. General Requirements

1.32 Discovery of a release. Upon discovery of a release, the Permittee shall:

- a. Take all reasonable steps to immediately end the release.
- b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 1(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.
- d. 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.
- e. Submit the sampling results as directed by the MPCA. At a minimum, the results shall be submitted to the MPCA with the next DMR.

1.33 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:

- 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.

Operation and Maintenance

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.34 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.
- 1.35 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, subp. 1, item C)
- 1.36 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 and Minn. R. 7041 and applicable federal and state solid waste rules)
- 1.37 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. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)
- 1.38 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. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)

Changes to the Facility or Permit

- 1.39 Permit Modifications. 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. (Minn. R. 7001.0030)

Permittees that propose to make a change to the facility or discharge that requires a permit modification must follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee must 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.

- 1.40 Construction. No construction shall begin until the Permittee receives written approval of plans and specifications from the MPCA (Minn. Stat. Sec. 115.03(f)).

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.

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 received or implemented.

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

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Chapter 10. Total Facility Requirements

1. General Requirements

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

The Permittee shall request approval for an 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:

- a. The process for which the additive will be used;
- b. Material Safety Data Sheet (MSDS) which shall include aquatic toxicity, human health, and environmental fate information for the proposed additive;
- 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.

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)

- 1.43 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.
- 1.44 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 122.44.1.2.i., necessary to ensure consistency with the assumptions and requirements of any applicable US EPA approved wasteload allocations resulting from Total Maximum Daily Load (TMDL) studies.
- 1.45 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, subp. 3, item N)

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Chapter 10. Total Facility Requirements

1. General Requirements

- 1.46 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.

Facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or ground water, may require a permit modification or reissuance.

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. Sec. 116.07, subd. 4)

- 1.47 Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for reissuance at least 180 days before 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.

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):

- 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.