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The Honorable Bryan Brandt
Mayor, City of Bigelow
P.O. Box 38
Bigelow, MN 56117-0038

RE: Final Issuance National Pollutant Discharge Elimination System/State Disposal System General Permit Number MNG580224
Notice of Coverage (NOC)
Bigelow Wastewater Treatment Facility

Dear Mayor Brandt:

Enclosed is a copy of National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Stabilization Pond General Permit MNG580000 (Permit). Upon review of the permit application received December 27, 2011, the Minnesota Pollution Control Agency (MPCA) has determined that the Bigelow Wastewater Treatment Facility (Facility) meets the eligibility requirements for this Permit. By this Notice of Coverage (NOC), the Facility identified above is covered under this Permit and is authorized to discharge as of the date of this letter. This Permit supersedes the previous NPDES/SDS permit MN0053724 that was issued on July 20, 2007. **Please note that the Permit number for this Facility has changed to MNG580224. Please use this number on all future correspondence regarding the Facility.** This new General Permit Number replaces the previously-issued Individual Permit Number MN0053724.

Description of Permitted Facility

The Bigelow Wastewater Treatment Facility (Facility) is an existing facility that is located in the SW¼ of Section 30, Township 101 North, Range 40 West, Bigelow Township, Nobles County, Minnesota. The application and plans indicate that the Facility consists of a gravity collection system and a two-cell stabilization pond system. The primary pond has a surface area of 2.46 acres measured at the four-foot mean operating depth and the secondary pond measures 1.21 acres at the four-foot depth. The system is designed for a 180 days of detention time. This is a Class D facility.

The Facility has a controlled discharge (SD001) to Otter Creek (Class 2B, 3B, 4A, 4B, 5, 6 Water) and is designed to treat an average wet weather (AWW) flow of up to 26,400 gallons per day (gpd) with a five-day carbonaceous biochemical oxygen demand (CBOD₅) strength of 200 milligrams per liter (mg/L).

In accordance with MPCA rules regarding nondegradation for all waters that are not Outstanding Resource Value Waters (ORVW), nondegradation review is required for any new or expanded significant discharge (Minn. R. 7050.0185). A significant discharge is 1) a new discharge (not in existence before January 1, 1988) that is greater than 200,000 gpd to anywater other than a Class 7 water or 2) an expanded discharge that expands by greater than 200,000 gpd that discharges to any water other than a Class 7 water or 3) a new or expanded discharge containing any toxic pollutant at a mass loading rate likely to increase the concentration of the toxicant in the receiving water by greater than one percent

over the baseline quality. The flow rate used to determine significance is the design AWW flow. The January 1, 1988, design AWW flow for this facility is 0.0 mgd.

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

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

The location of the Facility and its outfall is shown on the map on page 3 of this NOC.

Facility Specific Limits and Monitoring Requirements:

Please refer to the Limits and Monitoring Requirements enclosed with this NOC. These limits and requirements are specific to your facility and are an enforceable part of your permit.

- Please note that the kilograms per day Calendar Month Averages and Maximum Calendar Week averages for CBOD₅ and Total Suspended Solids have been calculated off of the acreage of the secondary pond at the average operating depth. The limits for these parameters vary slightly from what was permitted in the last permit since the ponds had not yet been constructed and the acreages that were proposed were slightly different from what was constructed.
- The Fecal Coliform Bacteria effective period is between April 1 and October 31. See Chapter 1, Section 4 of the Permit for specific limits and monitoring requirements.
- Tile Line Discharge Sampling Location - You are required to take samples from your tile line. Please refer to Chapter 1, Section 4 and the Limits and Monitoring Section attached to this NOC for further information. Also note that the station identification for the Facility's tile line has changed from SD002 to GW001.

Permitting requirements specific to your facility are as follows:

- Phosphorus Management Plan - You are required to submit a Phosphorus Management Plan (PMP). See Chapter 1, Section 12 of the Permit for specific requirements.

Please note that the following Chapters and requirements **do not** apply to your facility:

- Mercury Minimization Plan (MMP) - Only facilities with an AWW design flow of 0.200 mgd or greater are required to complete an MMP. Since your facility is under the minimum design flow, Chapter 1, Section 14 does not apply to your facility.
- Inflow and Infiltration Investigation and Elimination Plan does not apply to your facility. You can disregard the requirements in Chapter 1, Section 15.

- Suspected Leaky Pond Evaluation - Your facility does not have to submit a Leaking Pond Evaluation. You can disregard the requirements in Chapter 1, Section 16.

Facility Location



Compliance with the terms and conditions of this Permit is required as of the date of this letter. The MPCA must be notified immediately if conditions change.

The Discharge Monitoring Report and Supplemental Report forms to be used in reporting the required monitoring and analyses will be sent to you within 45 days of Permit issuance. Please contact us if you have not received these report forms at least one week before your first required report submittal date.

For your convenience, a *Submittals and Actions Checklist* (Checklist) has been included with this permit. The Checklist generally summarizes the submittal requirements for your facility over the life of the Permit. However, please be aware that the specific requirements for coverage are detailed in the Permit itself and should be reviewed carefully. The Checklist also includes a list of the MPCA staff assigned to this Permit, should you have any questions. A *Permit Users Manual* can be found at the MPCA website at <http://www.pca.state.mn.us/index.php/water/water-types-and-programs/wastewater/wastewater.htm>. The Permit Users Manual includes permit definitions and provides basic information to help Permittees with general questions about such things as how to complete DMRs, perform calculations and renew operator certification.

Sincerely,

Gene M. Soderbeck, P.E.
Supervisor, Southwest Regional & SSTS Policy and Planning Unit
SSTS, Land Treatment, and Rules Section
Municipal Division

GMS/AW:svdw

Enclosures: Public Notice, Stabilization Pond General Permit, Submittals and Actions Checklist

cc: Steve Schultz, Sewer/Wastewater Operator, City of Bigelow (w/enclosures)
Tina Edwards, Clerk/Treasurer, City of Bigelow (w/enclosures)
Steve E. Robinson, Project Manager, Short Elliot Hendrickson Inc. (w/enclosures)
Brad Gillingham, MPCA (w/enclosures)
Jennifer Satnik, MPCA (w/enclosures)

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Ground Water Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
GW001	Tile Line Monitoring	Tile Line Monitoring	SW Quarter of the SW Quarter of Section 30, Township 101 North, Range 40 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 (Monitor only during discharge)	Total Facility Discharge	SW Quarter of the SW Quarter of Section 30, Township 101 North, Range 40 West

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 30, Township 101 North, Range 40 West

Bigelow Wastewater Treatment Facility

Limits and Monitoring Requirements

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

GW 001: Tile Line Monitoring

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	
Specific Conductance	Monitor Only	umh/cm	Single Value	Apr, Jul, Oct	Grab	1 x Month	

SD 001: Total Facility Discharge (Applicable only during discharge)

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	18.6	kg/day	Calendar Month Average	Jan-Dec	Grab	2 x Week	7
BOD, Carbonaceous 05 Day (20 Deg C)	25	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Week	6
BOD, Carbonaceous 05 Day (20 Deg C)	29.8	kg/day	Maximum Calendar Week Average	Jan-Dec	Grab	2 x Week	7
BOD, Carbonaceous 05 Day (20 Deg C)	40	mg/L	Maximum Calendar Week Average	Jan-Dec	Grab	2 x Week	6
Fecal Coliform, MPN or Membrane Filter 44.5C	200	#100ml	Calendar Month Geometric Mean	Apr-Oct	Grab	2 x Week	6
Flow	0	MG	Calendar Month Total Intervention	Jan-Feb, Jul, Aug	Measurement, Continuous	1 x Day	8
Flow	Monitor Only	mgd	Calendar Month Average	Mar-Jun, Sep-Dec	Measurement, Continuous	1 x Day	8
Flow	Monitor Only	MG	Calendar Month Total	Mar-Jun, Sep-Dec	Measurement, Continuous	1 x Day	8
Oxygen, Dissolved	Monitor Only	mg/L	Calendar Month Minimum	Jan-Dec	Grab	2 x Week	2
pH	9.0	SU	Calendar Month Maximum	Jan-Dec	Grab	2 x Week	2
pH	6.0	SU	Calendar Month Minimum	Jan-Dec	Grab	2 x Week	2
Phosphorus, Total (as P)	Monitor Only	kg/day	Calendar Month Average	Jan-Dec	Grab	2 x Week	7
Phosphorus, Total (as P)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Week	6
Solids, Total Suspended (TSS)	33.5	kg/day	Calendar Month Average	Jan-Dec	Grab	2 x Week	7
Solids, Total Suspended (TSS)	45	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Week	6
Solids, Total Suspended (TSS)	48.4	kg/day	Maximum Calendar Week Average	Jan-Dec	Grab	2 x Week	7
Solids, Total Suspended (TSS)	65	mg/L	Maximum Calendar Week Average	Jan-Dec	Grab	2 x Week	6

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	5
Flow	Monitor Only	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	3
Flow	Monitor Only	mgd	Calendar Month Maximum	Jan-Dec	Measurement, Continuous	1 x Day	3

Bigelow 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 001: Influent Waste Stream

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	3
Mercury, Total (as Hg)	Monitor Only	ng/L	Calendar Month Maximum	Jan-Jun, Jul-Dec	Grab	1 x Half Year	4
pH	Monitor Only	SU	Instantaneous Maximum	Jan-Dec	Grab	1 x Quarter	1
Phosphorus, Total (as P)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	4-Hour Flow Composite	1 x Quarter	5
Precipitation	Monitor Only	in	Calendar Month Total	Jan-Dec	Measurement	1 x Day	3
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	4-Hour Flow Composite	1 x Quarter	5

Notes:

- 1 -- Analyze immediately, except holidays and weekends. Samples may be collected at any time during the quarter, but the results shall be reported on the DMR for the last month of the quarter (e.g. the sample for the first calendar quarter of Jan-Mar shall be reported on the March DMR).
- 2 -- Analyze immediately. Sampling required twice per week only during discharge.
- 3 -- Except weekends and holidays.
- 4 -- Please refer to Chapter 1, Waste Stream Station Section. Monitoring results are taken once in spring and once in fall, preferably at the same time effluent is sampled for mercury. Results are reported on the June and December DMRs. EPA method 1631, with clean techniques method 1669, and any revisions to that method or another approved EPA wastewater method for low level mercury must be used for sampling and analysis.
- 5 -- Samples may be collected at any time during the calendar quarter, but the results shall be reported on the DMR for the last month of the quarter (e.g. the sample for the first calendar quarter of Jan-Mar shall be reported on the March DMR).
- 6 -- Sampling required twice per week only during discharge.
- 7 -- Sampling required twice per week only during discharge. Mass limits generally are calculated based on the acreage of the secondary cell(s) and a 6-inch per day draw-down discharge rate from that cell(s).
- 8 -- See Chapter 1, Section 12, Acceptable Discharge Periods for further information.