FILED
December 27, 2023
INDIANA UTILITY
REGULATORY COMMISSION

Petitioner's Exhibit 10



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

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Eric J. Holcomb

Governor

Brian C. Rockensuess

Commissioner

November 28, 2023

VIA ELECTRONIC MAIL

Mr. Jeremy Lin, P.E., Engineer Lintech Engineering 8052 Monticello Avenue, Suite 207 Skokie, Illinois 60076

Dear Mr. Lin:

Re: Preliminary Effluent Limitations for Expansion

of the Town of Winfield Wastewater Treatment Plant

Permit No. IN0058343

Lake County

This letter is in response to your request for Preliminary Effluent Limitations (PELs) for a proposed expansion of the Town of Winfield Wastewater Treatment Plant (WWTP). As indicated in your request, the upgrade will consist of modifying the 0.40 MGD activated sludge plant to a 4.0 MGD oxidation ditch type treatment plant with ultraviolet light disinfection. The facility would continue to discharge via the existing outfall location to an unnamed tributary to Deer Creek. The Q7,10 low flow of the receiving stream at the point of discharge is considered to be 0 cfs.

A Wasteload Allocation (WLA002740) analysis was performed by this Office's staff on November 1, 2023 for the proposed facility upgrades. The following effluent limits are appropriated for the aforementioned modified treatment facility with an average design flow of 4.0 MGD with continuous discharge to the unnamed tributary to Deer Creek.

Table 1

	Summer		Winter		
	Monthly	Weekly	Monthly	Weekly	
Parameter	Average	Average	Average	Average	Units
CBOD ₅	10	15	25	40	mg/l
TSS	12	18	30	40	mg/l
Total Nitrogen	Report		Report		mg/l
Phosphorus	1.0		1.0		mg/l

Table 2

	Daily	Monthly	Daily	
Parameter	Minimum	Average	Maximum	Units
pН	6.0		9.0	s. u.
Dissolved Oxygen				
Summer	6.0			mg/l
Winter	5.0			mg/l
E. coli		125	235	count/100mL

Table 3

	S	Summer		Winter	
	Monthly	Daily	Monthly	Daily	
Parameter	Average	Maximum	Average	Maximum	Units
Ammonia-N	1.2	2.9	1.2	3.1	mg/l

327 IAC 2-1.3 outlines the state's Antidegradation Standards and Implementation Procedures. According to 327 IAC 2-1.3-1(b), the procedures apply to a proposed new or increased loading of a regulated pollutant to surface waters of the state from a deliberate activity subject to the Clean Water Act, including a change in process or operation, that will result in a significant lowering of water quality. As the proposed activities would not result in a significant lowering of water quality, the Antidegradation Standards and Implementation Procedures do not apply.

For the above referenced discharge scenario, the following requirements will apply: Flow must be measured. The mass limits for parameters are calculated by multiplying the average design flow (in MGD) by the corresponding concentration value and by 8.345. Summer effluent limitations apply from May 1 through November 30 of each year. Winter effluent limitations apply December 1 through April 30 of each year.

The effluent limitations for *E. coli* are 125 count/100 mis as a monthly average calculated as a geometric mean and 235 count/100 mis as a daily maximum. The *E.coli* limits apply from April 1 through October 31 of each year.

The water quality-based limits set forth in this letter are based on the Indiana water quality standards in effect at this time and may not be the final limits once the NPDES permit is issued. If the water quality standards are modified by the Water Pollution Control Board and new water quality standards become effective prior to the date the NPDES permit for your facility is actually issued, then the IDEM is required by law to issue the NPDES permit with limits based on the new standards.

Also, note that these preliminary effluent limitations are based upon a wasteload allocation analysis which mainly evaluated the typical conventional pollutants. Since the wastestream has not been fully characterized, IDEM reserves the right to establish

Jeremy Lin, P.E., Engineer

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effluent limitations for additional pollutant parameters as deemed necessary. This letter does not guarantee the approval of any permits.

In addition, Indiana Code 13-18-26 requires the permit applicant to certify that the following documents have been prepared and completed for new facilities and/or facility expansions with a design capacity above 0.10 MGD:

- A Life Cycle Cost-Benefit Analysis, as described in IC 13-18-26-3;
- A Capital Asset Management Plan, as described in IC 13-18-26-4; and
- A Cybersecurity Plan, as described in IC 13-18-26-5.

The certification of completion must be submitted to IDEM along with the permit application, and must be notarized. IDEM will not issue a permit to an applicant that is subject to IC 13-18-26 if the required certification is not included with the application packet, as required by IC 13-18-26-1(b).

The plans and analyses must be reviewed and revised (as necessary) at least once every five years. A new certification must be submitted to IDEM (with the NPDES renewal application) if any plan or analysis is revised during the five-year review.

If you have any questions regarding construction permits associated with the proposed facility upgrade, please contact Ms. Missy Nunnery at 317-232-5579. The NPDES permit modification will not be issued to reflect the upgrade until the construction permit is finalized. At a minimum, the modification request should be submitted at least 180 days prior to completion of the upgrade activities. Please be advised that the modification request must be accompanied by a \$50.00 fee in accordance with IC 13-18-20-12.

If there are any questions regarding the antidegradation requirements or NPDES permit requirements, please feel free to contact John Donnellan at idonnell@idem.in.gov or 317/234-0865.

Sincerely,

Leigh Voss, Chief

Municipal NPDES Permits Section

Office of Water Quality

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Enclosures

cc: Tim Clayton, Town Council President