

Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

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Eric J. Holcomb Governor Bruno Pigott Commissioner

January 10, 2020

<u>Via Email to:</u> heil@kconline.com Mr. Rex Heil, President Turkey Creek Regional Sewer District 4852 North County Road 1200 West Cromwell, Indiana 46732

Dear Mr. Heil:

Re: Inspection Summary Letter Turkey Creek Regional Sewer District NPDES Permit No. IN0045802 Cromwell, Noble County

An inspection of the above-referenced facility or location was conducted by a representative of the Indiana Department of Environmental Management, Northern Regional Office, pursuant to IC 13-18-3-9. A summary of the inspection is provided below:

Date(s) of Inspection: January 09, 2020

Type of Inspection: Compliance Evaluation Inspection

Inspection Results:

Conditions evaluated were found to be satisfactory at the time of the inspection.

A copy of the NPDES Wastewater Facility Inspection Report is enclosed for your records. Please direct any response to this letter and any questions to Lynn Raisor at 317-691-0099 or by email to Iraisor@idem.IN.gov.

Sincerely,

Jam E. Weingart

James E. Weingart, Director Northern Regional Office

Enclosure



NPDES Wastewater Facility Inspection Report INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NPDES Permit Number:	Facility Type:				Fac		Facility C	acility Classification: TEMPO AI	
IN0045802 Municipality				Minor				45343	
Date(s) of Inspection: Jan									
Type of Inspection: Compliance Evaluation Inspection									
Name and Location of Facility Inspected: Receiving Waters: Permit Expiration Date:									
Turkey Creek Regional Sewer District					5/31/2023				
4852 North County Road 1200 West County:					Cromwell Ditch Design Flow:				
Cromwell	IN 4673	IN 46732 Noble							.37MGD
On Site Representative(s):	T '0		_						
First Name Last Name Tim Woodward		Title Email Superintendent tim@to							Phone 574-529-0098
Tim Woodward Superintendent tim@tcrsd.com 574-529-0098 Was a verbal summary of findings presented to the on-site representative? Yes									
	ary of find Number:	Ings pr Class:	Effective Date:	the	e ON-SITE r	epreser Email:	itative?	res	
Tim Woodward	19287		7-1-18		6-30-21	tim@tcr	sd.com		
Cyber Security Contact:									
Name: Tim Woodward Email: tim@tcrsd.com									
Responsible Official:				9.01		Turkey	Creek Re	nional Se	ewer District
Mr. Rex Heil, President					Permittee: Turkey Creek Regional Sewer District Email: heil@kconline.com				
					Phone:	Tiell@kc	onnine.cc		Contacted?
4852 North County Road 1200 West					Filone.				No
Cromwell, Indiana 46732			NSPECTION						NO
	.								
Conditions evaluated v						pection. (5)		
\bigcirc Violations were discovered but corrected during the inspection. (4)									
\bigcirc Potential problems were discovered or observed. (3)									
\bigcirc Violations were discovered and require a submittal from you and/or a follow-up inspection by IDEM. (2)									
\bigcirc Violations were discove	ered and ma	y subject	: you to an ap	prop	oriate enforc	cement re	sponse. (1)	
			ALUATED						
		1	= Marginal, U						
S Receiving Waters	S	Facility		S	Self-Monit		N	Complia	nce Schedules
S Effluent	S	Operat	tion	S	Flow Mea	suremen	t N	Pretreat	ment
S Permit	S Maintenance		nance	S	Laborator	у	М	Effluent	Limits Compliance
M Collection System	S	Sludge	•	S	Records/F	Reports	N	Other:	
		DETA		A EV	ALUATIO	NS		•	
DETAILED AREA EVALUATIONS Receiving Waters: S 1. The receiving stream was visibly free of excessive deposits of settled solids, floating debris, oil, scum, or billowy foam.									
Comments: The receiving stream was evaluated at the outfall and was free of notable foam, algae or solids.									
Effluent: <u>S</u> 1. Final effluent was free of excessive solids, floating debris, oil, scum, or billowy foam.									
Comments: The effluent was clear and free of color at the time of the inspection.									
Permit: S 1. Did the facility have a current copy of the permit available for reference? N 2. If the permit expires within 180 days, has a renewal application been submitted? S 3. Receiving waters and Facility Description in the permit reflect actual conditions at the facility.									

N 4. The permit has been properly transferred if there is a new owner.

Comments:

The facility was found to have a valid permit and the facility description, including units of treatment and receiving stream, is accurate.

Collection System:

- N 1. CSO's were found to be adequately monitored and maintained.
- <u>S</u> 2. There were <u>no</u> maintenance-related (clogged or blocked lines) overflow events in last 12 months.
- M_3. There were one hydraulic (I&I) overflow events in last 12 months.
- N 4. Facility has met SSO and dry weather CSO reporting requirements
- S 5. Any adverse impacts from SSO and CSO events have been properly mitigated.
- S 6. Lift stations were found to be adequately inspected, cleaned, and maintained, with adequate documentation of activities.
- S 7. Collection system maintenance activities appeared to be adequate.

Comments:

The collection system contains 28 lift stations, all with telemetry. Four of the lift stations are on the new cellular based Win911 system. All others remain on the SCDATA system. As items on the SCDATA system are repaired/replaced, the Win911 system will be installed. 18 lift stations have dedicated generators, and all lift stations are checked on a weekly basis. In addition to the lift stations, the collection system contains 270 low pressure pump pits and 1000 in-line residential retention tanks. The retention tanks act as a semi-septic tank and settles out some solids. Each tank is inspected and cleaned on a rotating basis, but at least every ten years. The 270 pump pits all have both lights and audible alarms. The District has dedicated collection system staff to clean, inspect, and maintain the system.

The facility reported one collection system overflow in the last year, resulting in a marginal rating. This occurred during the July Fourth holiday and after a five inch rain event. The newest lift station in the system had all three VFD pumps running and overwhelmed the sewer line, in lieu of utilizing the lift station wet well for storage. Since that time, the lift station control panel has been re-set to allow for no more than three pumps at a time to operate. The pumps are VFD in operation and each pump can handle expected wet weather flows.

In June 2019, all sanitary flows that were previously sent to the Syracuse WWTP for treatment were re-directed back to the Turkey Creek RSD WWTP for treatment. Additionally, since this area is known to contain some inflow and infiltration, 'hard hat' caps were installed in many manholes. The District continually works to reduce inflow and infiltration.

Facility/Site:

- <u>S</u> 1. The facility was found to have standby power or equivalent provision.
- S 2. An adequate alarm or notification system for power or equipment failure was available for the treatment facility and lift stations.
- S 3. Safe and adequate access was provided for inspection of all units and outfalls.
- S 4. Facilities and equipment did not appear beyond their useful life.
 - 5. List any safety concerns:

Comments:

The facility consists of an influent equalization, grit removal, dual oxidation ditches, secondary clarification, UV disinfection (seasonal) and cascade post aeration. All units of treatment were in service at the time of the inspection. The influent equalization pumps and RAS pumps are variable speed and connected to the influent flow meter. Each of the secondary clarifiers have an individual return pit structure/pump and can operate completely independently of each other.

The facility recently completed a plant upgrade that now provides a peak treatment capacity of 1.8 mgd. This capacity upgrade included a sixth VFD influent pump, fourth secondary clarifier, new grit removal system, and new influent mechanical fine screen.

The District is currently exploring options to possibly complete another collection system expansion. Currently, the engineering costs of different types of collection systems is being evaluated.

Operation:

 S 1. All facilities and systems necessary for achieving compliance with the terms and conditions of the permit were operated efficiently, including a report for an anticipated bypass report for steps of treatment taken out of service.
 S

2. An adequate, qualified operating staff was found to be provided to carry out the operation of the facility,

including:

- a. Certified Operator's on-site attendance and/or qualified operations personnel attendance was adequate.
- b. Adequate documentation of operational activities, including system monitoring and cleaning.
- c. Adequate funding to ensure proper operation.
- S 3. Solids handling procedures include.
 - a. Sufficient solids wasted from the treatment system, in a timely manner, to maintain process efficiency.
 - b. Wasting of solids based on appropriate operational targets and valid process control testing.
 - c. Adequate documentation of solids removal, handling, or control was available for review.

S 4. The facility was found to be operated efficiently during wet weather events.

Comments:

All units of treatment appeared to be operating efficiently. Very good color and mixing was noted in the oxidation ditches. The secondary clarifiers were settling well and had no floating ash or debris. Sludge is wasted on a daily basis utilizing a calculation of a target MLSS value and analytical data. All wasting data is readily available for review.

In preparation for large rainfall expected overnight, plant operators were bringing on line two additional secondary clarifiers. IDEM commends this proactive approach.

Maintenance:

- S 1. A maintenance record system has been established and includes maintenance/repair history and preventative maintenance plan.
- S 2. Facility maintenance activities appeared to be adequate.

Comments:

All maintenance activities appear adequate. The District implements an EPA Asset Management/Maintenance program called CUPSS. This program generates daily, weekly, monthly, and annual maintenance or operational activities.

Sludge:

S 1. Sludges, screenings, and slurries were found to be handled and disposed of properly.

Comments:

A records review during the inspection showed adequate wasting, handling, and disposal of sludge. Sludge wasting is well documented on both daily calculation sheets and the MRO. Dried sludge is land applied under Land Application Permit INLA00356. During cold weather months, sludge is wet hauled for disposal.

Self-Monitoring:

- S 1. Samples were found to be taken at pre-designated locations and were found to be representative.
- S 2. Flow-proportioned samples were found to be obtained where needed.

S 3. The facility was found to conduct sampling of all waste streams, including type and frequency, as required in the permit.

- <u>S</u> 4. Sample collection procedures, including automatic sampling, were found to include:
 - a. Samples refrigerated during compositing.
 - b. Proper preservation techniques used.
 - c. Containers and holding times conformed to 40 CFR 136.3.
- S 5. Sample documentation was found to be adequate and included:
 - a. Dates, times, and locations of sampling.
 - b. Name of individual performing sampling.
 - c. Instantaneous flow for flow-weighted aliquots.
 - d. Chain of Custody records.
- N 6. NPDES Permit Whole Effluent Toxicity (WET) testing requirements were found to be met.

Comments:

All sampling practices, including raw and intermediate unit process testing, are conducted accurately and at the frequency required by the permit. The effluent sample is collected by an automatic sampler. Currently, influent sampling is only a single grab sample. IDEM recommends composite sampling for a more accurate picture of the influent wastestream.

Flow Measurement:

- S 1. Flow was found to be properly monitored as required by the permit.
- S 2. Flow data and calibration records were available for review.

Comments:

The facility's flow measurement program, including all documentation, was found to be adequate and

aboratory:	oordo waro roviowadu						
The following laboratory re		D. O. Barrah Shaata					
Sample Log	pH Bench Sheets	D. O. Bench Sheets					
CBOD Bench Sheets	TSS Bench Sheets	Ammonia Bench Sheets					
S 1 The laboratory prac	ctices and protocol reviewed v	were adequate including:					
	atory QA/QC manual was ava						
b. Samples were found to be properly stored.							
c. Approved analytical methods were found to be used.							
	maintenance of instruments	•					
•	ures were found to be adequa						
	ses (and times where required						
g. Name of perso	n performing analyses was re	ecoraea.					
<u>S</u> 2. Review of lab recor	rds and/or on-site field testing	equipment and protocols was found to be adequate.					
_{Comments:} The bench sheets reviewed	d during the inspection appea	red to be accurate and complete. The facility conducts					
extensive Quality Control to		s, blanks, percent recovery, and known standards.					
Records/Reports:							
The following records/repo		a 2010 were reviewed as part of the inspection					
		er 2019 were reviewed as part of the inspection.					
		evious three years were available for review.					
a. "No Ex" colum	· · ·	roperly and accurately including:					
	irements were met.						
	prepared by or under the direct	ction of a certified operator.					
	mpliance reporting were foun						
Comments:							
•	re available and appeared to	be complete and accurate.					
Compliance Schedules:	t Schedule of Compliance mo	nitoring and reporting milestones have been met.					
	pliance milestones have been						
Comments:							
	ompliance in the current perm	it, or an Agreed Order.					
Pretreatment:	• • • • • • • •	.					
		ner sources of toxic substances was noted.					
	and Non-Delegated pretreat	pund to be regulated as required.					
		er Use Ordinance (SOU) and the Enforcement Response					
Plan (ERP).							
	d permittee accepts hauled w	aste:					
	W provide written permission						
	W obtain samples from each l W retain records of each load	hauled waste load and retain them for at least 48 hours? ?					
^{Comments:} The facility has no industria	al contributors.						
Effluent Limits Complian							
Yes 1. Were DMRs review	December 2019 to Nevember	er 2019 were reviewed as part of the inspection.					
DMRs for the period of							
DMRs for the period of	ted during the review of DMRs	s?					

IDEM REPRESENTATIVE							
Inspector Name:	Email:	Phone Number:					
Lynn Raisor	Iraisor@idem.IN.gov	317-691-0099					
IDEM MANAGER REVIEW							
IDEM Manager:		Date:					
James E. Weingart		1/9/2020					