OhioEPA
State of Ohio Environmental Protection Agency

Southeast District Office

2195 Front Street
Logan, Ohio 43138

TELE: (740) 385-8501 FAX: (740) 385-6490
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

May 21, 2010

Re: Jefferson County
Village of Smithfield
Compliance Inspection
NPDES Permit #0PA00053*ED
Correspondence (PWW)

Mayor and Council
Village of Smithfield
P.O. Box 454
Smithfield, Ohio 43948

Mayor and Council:

On March 30, 2010, I conducted an inspection of the Village of Smithfield's wastewater treatment plant. The inspection was conducted in order to evaluate Smithfield's compliance with NPDES permit 0PA00053*ED and the Ohio Water Pollution Control Act, ORC Chapter 6111. Mr. John Sadar accompanied me through the plant and the collection system.

It has become apparent through this and a previous inspection that significant work must be performed on the lagoon treatment system and the Village's collection system. A lack of maintenance and upkeep over the past 20 years has left all aspects of the Village's wastewater collection and treatment system in poor condition, as detailed by violations and comments below.

Following are violations noted during the inspection:

1. **Reporting Violations:**

   a. Numeric Effluent Violations:

   Since the last inspection at the plant on August 4, 2009, the following effluent violations have occurred at the plant:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2009	001	00530	Total Suspended Solids	30D Qty	12.5	41.0341	8/1/2009
August 2009	001	00530	Total Suspended Solids	7D Qty	18.8	19.5873	8/1/2009
August 2009	001	31616	Fecal Coliform	30D Conc	1000	1165.14	8/1/2009
August 2009	001	80082	CBOD 5 day	30D Qty	10.4	25.7938	8/1/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.07	8/3/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.05	8/4/2009

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.12	8/5/2009
August 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	20.2	8/7/2009
August 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	43.5804	8/7/2009
August 2009	001	00530	Total Suspended Solids	7D Qty	18.8	57.8348	8/8/2009
August 2009	001	31616	Fecal Coliform	7D Conc	2000	2900.	8/8/2009
August 2009	001	80082	CBOD 5 day	7D Qty	16.7	36.1921	8/8/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.06	8/13/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.07	8/14/2009
August 2009	001	00530	Total Suspended Solids	7D Qty	18.8	22.3315	8/15/2009
August 2009	001	31616	Fecal Coliform	7D Conc	2000	3100.	8/15/2009
August 2009	001	80082	CBOD 5 day	7D Qty	16.7	21.5593	8/15/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.1	8/18/2009
August 2009	001	00530	Total Suspended Solids	7D Qty	18.8	64.3828	8/22/2009
August 2009	001	31616	Fecal Coliform	7D Conc	2000	4100.	8/22/2009
August 2009	001	80082	CBOD 5 day	7D Qty	16.7	32.4298	8/22/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.1	8/24/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.05	8/25/2009
August 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.07	8/26/2009
September 2009	001	00530	Total Suspended Solids	30D Conc	30	38.	9/1/2009
September 2009	001	31616	Fecal Coliform	30D Conc	1000	5567.48	9/1/2009
September 2009	001	31616	Fecal Coliform	7D Conc	2000	6500.	9/8/2009
September 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.05	9/10/2009
September 2009	001	00530	Total Suspended Solids	7D Conc	45	47.	9/15/2009
September 2009	001	31616	Fecal Coliform	7D Conc	2000	5900.	9/15/2009
September 2009	001	31616	Fecal Coliform	7D Conc	2000	4500.	9/22/2009
September 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.07	9/29/2009
October 2009	001	00530	Total Suspended Solids	30D Qty	12.5	29.4586	10/1/2009
October 2009	001	00530	Total Suspended Solids	7D Qty	18.8	54.7689	10/1/2009
October 2009	001	31616	Fecal Coliform	30D Conc	1000	5291.50	10/1/2009
October 2009	001	31616	Fecal Coliform	7D Conc	2000	2800.	10/1/2009
October 2009	001	80082	CBOD 5 day	30D Qty	10.4	24.4548	10/1/2009
October 2009	001	80082	CBOD 5 day	7D Qty	16.7	35.6547	10/1/2009
October 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	20.1816	10/6/2009
October 2009	001	00530	Total Suspended Solids	7D Qty	18.8	46.1013	10/8/2009
October 2009	001	80082	CBOD 5 day	7D Qty	16.7	31.6728	10/8/2009
October 2009	001	31616	Fecal Coliform	7D Conc	2000	10000.	10/15/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.15	10/20/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.14	10/21/2009
October 2009	001	00530	Total Suspended Solids	7D Qty	18.8	23.6184	10/22/2009
October 2009	001	80082	CBOD 5 day	7D Qty	16.7	19.2883	10/22/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.15	10/22/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.12	10/23/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.07	10/26/2009
October 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	25.3	10/27/2009
October 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	46.9226	10/27/2009

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.18	10/27/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.19	10/28/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.08	10/29/2009
October 2009	001	50060	Chlorine, Total Residual	1D Conc	0.019	.08	10/30/2009
November 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	35.1	11/17/2009
November 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	6.24411	11/17/2009
November 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	34.2	11/24/2009
November 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	6.47235	11/24/2009
December 2009	001	00530	Total Suspended Solids	30D Conc	30	33.2	12/1/2009
December 2009	001	00530	Total Suspended Solids	30D Qty	12.5	66.1428	12/1/2009
December 2009	001	00530	Total Suspended Solids	7D Qty	18.8	87.1685	12/1/2009
December 2009	001	80082	CBOD 5 day	30D Qty	10.4	33.1821	12/1/2009
December 2009	001	80082	CBOD 5 day	7D Qty	16.7	37.0324	12/1/2009
December 2009	001	00530	Total Suspended Solids	7D Qty	18.8	84.4812	12/15/2009
December 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	30.8	12/15/2009
December 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	78.1072	12/15/2009
December 2009	001	80082	CBOD 5 day	7D Qty	16.7	34.2315	12/15/2009
December 2009	001	00530	Total Suspended Solids	7D Qty	18.8	72.7477	12/22/2009
December 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	17.1	12/22/2009
December 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	35.5979	12/22/2009
December 2009	001	80082	CBOD 5 day	7D Qty	16.7	38.5464	12/22/2009
January 2010	001	00530	Total Suspended Solids	30D Conc	30	36.75	1/1/2010
January 2010	001	00530	Total Suspended Solids	30D Qty	12.5	72.3928	1/1/2010
January 2010	001	00530	Total Suspended Solids	7D Qty	18.8	61.7712	1/1/2010
January 2010	001	80082	CBOD 5 day	30D Qty	10.4	29.8702	1/1/2010
January 2010	001	80082	CBOD 5 day	7D Qty	16.7	27.0249	1/1/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	32.7	1/5/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	66.8355	1/5/2010
January 2010	001	00530	Total Suspended Solids	7D Qty	18.8	82.0588	1/8/2010
January 2010	001	80082	CBOD 5 day	7D Qty	16.7	30.6093	1/8/2010
January 2010	001	00530	Total Suspended Solids	7D Qty	18.8	95.0792	1/15/2010
January 2010	001	80082	CBOD 5 day	7D Qty	16.7	39.7727	1/15/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	24.7	1/19/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	86.0103	1/19/2010
January 2010	001	00530	Total Suspended Solids	7D Qty	18.8	75.0187	1/22/2010
January 2010	001	80082	CBOD 5 day	7D Qty	16.7	32.0608	1/22/2010
February 2010	001	00530	Total Suspended Solids	30D Conc	30	37.75	2/1/2010
February 2010	001	00530	Total Suspended Solids	30D Qty	12.5	82.4940	2/1/2010
February 2010	001	00530	Total Suspended Solids	7D Qty	18.8	73.5804	2/1/2010
February 2010	001	80082	CBOD 5 day	30D Qty	10.4	38.3713	2/1/2010
February 2010	001	80082	CBOD 5 day	7D Qty	16.7	36.5858	2/1/2010
February 2010	001	00530	Total Suspended Solids	7D Qty	18.8	77.0247	2/8/2010
February 2010	001	80082	CBOD 5 day	7D Qty	16.7	36.8469	2/8/2010
February 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	24.4	2/9/2010
February 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	49.8711	2/9/2010

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2010	001	00530	Total Suspended Solids	7D Qty	18.8	87.3956	2/15/2010
February 2010	001	80082	CBOD 5 day	7D Qty	16.7	33.7697	2/15/2010
February 2010	001	00530	Total Suspended Solids	7D Qty	18.8	91.9755	2/22/2010
February 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	13	35.9	2/22/2010
February 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	5.4	72.0172	2/22/2010
February 2010	001	80082	CBOD 5 day	7D Qty	16.7	46.2829	2/22/2010

The frequency and severity of these violations is an indicator of the need for major repairs at the WWTP. Please explain what actions the Village of Smithfield will take to eliminate the occurrence of these violations in the future.

b. Frequency Violations:

In addition to the above effluent limit numerical violations, the following frequency violations have occurred since the last inspection:

Reporting Period	Violation Date	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported
Oct. 2009	10/22/2009	001	00530	Total Suspended Solids	2/Week	2	1
Oct. 2009	10/22/2009	001	80082	CBOD 5 day	2/Week	2	1
Oct. 2009	10/22/2009	601	80082	CBOD 5 day	1/Week	1	0
Dec. 2009	12/1/2009	001	00610	Nitrogen, Ammonia (NH3)	1/2Weeks	1	0
Dec. 2009	12/1/2009	001	50092	Mercury, Total (Low Le)	2/Year	1	0
Sept. 2009	9/1/2009	001	31616	Fecal Coliform	1/Week	1	0
Jan. 2010	1/1/2010	001	80082	CBOD 5 day	2/Week	2	1
Nov. 2009	11/1/2009	001	00610	Nitrogen, Ammonia (NH3)	1/2Weeks	1	0
Sept. 2009	9/22/2009	601	00530	Total Suspended Solids	1/Week	1	0
Oct. 2009	10/8/2009	001	31616	Fecal Coliform	1/Week	1	0
Oct. 2009	10/22/2009	601	00530	Total Suspended Solids	1/Week	1	0
Jan. 2010	1/1/2010	001	00530	Total Suspended Solids	2/Week	2	1
Oct. 2009	10/22/2009	001	31616	Fecal Coliform	1/Week	1	0
Sept. 2009	9/22/2009	601	80082	CBOD 5 day	1/Week	1	0

The above list of frequency violations represents required samples that were not reported as required. Please provide an explanation as to why each of the above parameters were not reported as required by NPDES permit 0PA00053*ED.

2. **Sampling Violations:**

a. Low-Level Mercury Sampling Requirement:

In the above list, please note that the Village of Smithfield is required to sample and report Total Low Level Mercury, reporting code 50092, twice

per year. This sample was not taken and reported as required. The Village of Smithfield must immediately collect this sample and report the analytical results to Ohio EPA through the eDMR reporting system. Since this sample requires specialized collection and analysis, the Village of Smithfield should consult with a qualified laboratory to collect and analyze the sample.

b. Sample Collection Methods:

During the inspection, Mr. Sadar was questioned about sample collection method. You will note that in Smithfield's NPDES permit, sampling methods vary and include, "grab," "composite," "continuous," and "24-hour total" for outfall001. Mr. Sadar stated that he is collecting all samples using the "grab" method, which is inappropriate for many of the parameters. The Village of Smithfield must immediately begin collecting samples using the required methods indicated in the effective NPDES permit. It is recommended that an experienced individual be consulted to either collect all samples, or train Mr. Sadar. Please provide documentation stating what actions have been taken to ensure that samples are being collected correctly.

3. **Treatment System Ammonia Removal; Ammonia Effluent Violations:**

In the above list of violations, ammonia limit exceedances occur on a regular basis, especially during periods of cold weather. This is a chronic problem associated with nearly all lagoon systems, and requires that the Village of Smithfield provide additional treatment. Please provide information detailing steps the Village of Smithfield intends to take to provide effective year-round ammonia removal.

4. **Treatment System Condition and Operation:**

As mentioned above, the Village of Smithfield's WWTP has deteriorated greatly over the past decade. Specifically, the aeration system at the plant is ineffective. Though most of the aeration system is buried or under water, it is apparent that the entire system must be completely rebuilt. There are a few areas where aeration lines appear to still be functioning, but the majority of the system suffers from plugged lines, burst distribution manifolds, and burst individual lines. Despite this situation, the system's air pumps run 24-hours per day, resulting in huge energy losses. This is expensive and highly inefficient.

The Village of Smithfield must immediately replace the aeration system, as this is undoubtedly related to the frequency and magnitude of effluent violations. There are many options available, but it is recommended that a system be chosen that will allow for easy repairs and in-house aeration line/diffuser replacement in order to prevent the chance of the current situation from

occurring in the future. Please provide a schedule for aeration system replacement. Please note that my previous inspection letter from August 2009 contained the following paragraph:

"Mr. Sadar provided a verbal explanation of his plan to rehabilitate the aeration system at a minimal cost to the Village by utilizing locally obtainable common parts. His explanation of potential repairs sounds as if it would be successful. Ohio EPA would require the submittal of a permit to install application for this system in order to allow for a detailed review of the proposal. The Village will have to obtain assistance from a registered Professional Engineer. Ohio EPA recommends that this rehabilitation of the aeration system be completed this summer, but no later than the end of December 2009."

This paragraph was never addressed by the Village of Smithfield.

5. **Collection System Operation and Maintenance Violations:**

a. Alarms:

The Village of Smithfield operates and maintains nine lift stations. During the inspection, we visited and evaluated three of them. At that time, I was informed that none of the lift stations are equipped with operable alarm systems. Alarms systems are present on all lift stations, but at some point in time, they were disabled. These alarms should be wired and set to provide visible and audible signals when pump failures and/or high water levels occur. The Village must immediately repair all lift station alarm systems. These systems provide ample warning to prevent overflow conditions at the lift stations. Please provide documentation that all alarm systems have been repaired and enabled.

b. Back-up pumps:

None of the nine lift stations are equipped with a second pump, which are to serve as a back-up during primary pump failure or high flows. The Village of Smithfield must immediately repair and/or replace all secondary pumping systems at all nine lift stations. Please provide documentation that all secondary pumps have been replaced and are operable.

c. Lift Station Structures:

Each of the Village's lift stations are constructed of precast concrete. During the inspection, it was noted that in at least one lift station, the concrete has begun to deteriorate due to acidic conditions. Additionally, many of the metal components within the lift stations (chains, rails, steps) appear to be corroded.

The Village of Smithfield should immediately evaluate and repair or replace all critical components of each lift station in order to prevent failure of critical components.

d. Lift Station Overflows:

During the inspection the lift station located at the apartment complex was actively overflowing. All lift station and other collections system overflows (sanitary sewer overflows, or SSOs) are illegal and must be reported per NPDES permit #0PA00053*ED, Part II, E. Please ensure that this and all future SSOs are reported as required.

It should be noted that if this lift station was equipped with the required alarm system and redundant pumping capabilities, this overflow condition likely would not have occurred. At a minimum, the impending overflow would have been identified by the audible and visible alarms.

e. Other Lift Station Comments:

Two of the three lift stations observed had additional components needing immediate attention.

The school lift station was noted to have some questionable (and possibly dangerous) electrical wiring. It appeared that someone, in attempting to rewire the pumps, decided to run wiring through the lid of the pump station, instead of through the necessary underground conduit. This unprotected wire is subject to weathering, abrasion, and pinching by the lid. In fact, it is necessary to prop this lid up slightly with a rock or other object in order to prevent serious damage to the wire. This condition allows for much easier access to the wet well, and could possibly place the Village in a position of liability should anyone open and fall into the lift station.

The apartment lift station that was observed overflowing was noted to have some above-ground piping installed. Apparently, there was a problem with the original pressure line, and someone decided to bypass this pipe by placing new piping above-ground. If this job had been done correctly, the faulty section of pipe would have been excavated and replaced with the same or other compatible material. As "repaired", this new piping is subject to freezing and possible bursting during freezing conditions.

Please provide, within 30 days of the date of this letter, a response addressing all of the above violations and deficiencies. The response must include details of all repairs made since the inspection as well as a schedule to address all other deficiencies.

The collection system and lagoon repairs needed to bring the Village of Smithfield back into compliance with NPDES permit 0PA00053*ED and the Ohio Water Pollution Control Act, ORC Chapter 6111, will likely require more funding than the Village currently has available. If you have not done so already, please contact Pejmaan Fallah with Ohio EPA's Division of Environmental and Financial Assistance (DEFA) at (614) 644-3666. He should be able to provide the Village of Smithfield with assistance in identifying funding sources for planning and construction.

Should the Village be unable or unwilling to make repairs necessary to bring the system into compliance with all applicable rules, laws, and permits, formal escalated enforcement may be initiated. If you believe that a meeting would be beneficial to the Village, or if you have any questions or concerns, please contact me at (740) 380-5447.

Sincerely,

Michael Yandrich, P.E.
District Representative
Division of Surface Water

MY/dh

Enclosure

NPDES
Compliance Inspection Report

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
0PA00053*ED	OH0050148	March 30, 2010	C	S	1

B. FACILITY DATA

Name & Location of Facility Inspected	Entry Time	Permit Effective Date
Smithfield WWTP 378 Sherwood Avenue Extension Smithfield, Ohio	9:45 a.m.	September 1, 2008
	Exit Time	**Permit Expiration Date**
	12:30 p.m.	August 30, 2013

Name(s) & Title(s) of On-Site Representative(s)	Phone Number(s)
John Sadar	(740) 733-7023
Name, Address, & Title of Responsible Official	**Phone Number**
Mayor Patricia Freeland	(740) 733-7300

C. AREAS EVALUATED DURING INSPECTION

S	Permit	S	Flow Measurement	NA	Pretreatment
S	Records/Reports	NA	Laboratory	U	Compliance Schedules
U	Operations & Maintenance	S	Effluent/Receiving Waters	U	Self-Monitoring Program
S	Facility Site Review	NA	Sludge Storage/Disposal		Other
U	Collection System				

(S = Satisfactory; M = Marginal; U = Unsatisfactory; N = Not Evaluated; N/A = Not Applicable)

D. SUMMARY OF FINDINGS/COMMENTS (attach additional sheets if necessary)

See attached inspection letter.

Michael Yandrich, Inspector, Ohio EPA, Southeast District Office — Date: 5-21-2010

Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office — Date: 5/26/10

E. PERMIT VERIFICATION

Inspection Observations Verify the Permit	YES	NO	N/A	N/E
a. Correct name & mailing address of permittee	☒	☐	☐	☐
b. Correct name & location of receiving waters	☒	☐	☐	☐
c. Product(s) & production rates conform with permit application (industries)	☐	☐	☒	☐
d. Flows & loadings conform with NPDES permit	☒	☐	☐	☐
e. Treatment processes are as described in permit application/briefing memo	☒	☐	☐	☐
f. New treatment process(es) added since last inspection	☐	☒	☐	☐
g. Notification given to state of new, different, or increased discharges	☐	☐	☒	☐
h. All discharges are permitted	☒	☐	☐	☐
i. Number & location of discharge points are as described in permit	☒	☐	☐	☐

Comments:

F. COMPLIANCE SCHEDULES/VIOLATIONS

	YES	NO	N/A	N/E
a. Any significant violations since the last inspection	☒	☐	☐	☐
b. Permittee is taking actions to resolve violations	☐	☒	☐	☐
c. Permittee has compliance schedule	☒	☐	☐	☐
d. Compliance schedule contained in: Permit	☒	☐	☐	☐
e. Permittee is meeting compliance schedule	☐	☒	☐	☐

Comments:

G. OPERATION AND MAINTENANCE

Treatment Facility Properly Operated & Maintained	YES	NO	N/A	N/E
a. Standby power available: Generator: ☒ Dual Feed: ☐	☒	☐	☐	☐
b. Adequate alarm system available for power or equipment failures	☐	☒	☐	☐
c. All treatment units in service other than backup units	☐	☒	☐	☐
d. Sufficient operating staff provided: # of shifts: 1 Days/Week: 5	☒	☐	☐	☐
e. Operator holds unexpired license of class required by permit. Class: I	☒	☐	☐	☐
f. Copy of certificate of Operator of Record displayed on-site	☐	☒	☐	☐
g. Minimum operator staffing requirements fulfilled (OAC 3745-7)	☐	☐	☒	☐
h. Routine & preventive maintenance schedule/performed on time	☐	☒	☐	☐
i. Any major equipment breakdown since last inspection	☒	☐	☐	☐
j. Operation & maintenance manual provided & maintained	☒	☐	☐	☐
k. Any plant bypasses since last inspection	☐	☒	☐	☐
l. Regulatory agency notified of bypasses: On MORS: ☐ 800 No.: ☐	☐	☐	☒	☐
m. Any hydraulic and/or organic overloads experienced since last inspection	☐	☒	☐	☐

Comments:
ORC Bruce Snyder

Record Keeping	YES	NO	N/A	N/E
a. Log book provided	☒	☐	☐	☐
b. Log book kept on-site	☒	☐	☐	☐
c. Log book contains the following:	☒	☐	☐	☐
1. Identification of treatment works	☒	☐	☐	☐
2. Date/time of arrival/departure of ORC	☒	☐	☐	☐
3. Daily record of operation and maintenance activities	☒	☐	☐	☐
4. Laboratory results (unless documented on bench sheets)	☒	☐	☐	☐
5. Identification of person making log entries	☒	☐	☐	☐
d. Is the ORC submitting written notification to Ohio EPA and permittee when a collection system overflow, treatment plant bypass or effluent limit violation has occurred.	☒	☐	☐	☐

Comments:

Collection System	YES	NO	N/A	N/E
a. Percent combined system. Percent:	☐	☐	☒	☐
b. Any collection system overflows since last inspection: CSO: ☐ SSO: ☒	☒	☐	☐	☐
c. Regulatory agency notified of overflow (SSOs)	☒	☐	☐	☐
d. CSO O&M plan provided and implemented	☐	☐	☒	☐
e. DSOs monitored and reported in accordance with permit	☐	☐	☒	☐
f. Portable pumps used to relieve system	☐	☒	☐	☐
g. Lift station alarm systems provided and maintained	☐	☒	☐	☐
h. Are lift stations equipped with permanent standby power or equivalent	☒	☐	☐	☐
i. Is there an inflow/infiltration problem (separate sewer system), or were there any major repairs to collection system since last inspection	☐	☒	☐	☐
j. Any complaints received since last inspection of basement flooding	☐	☒	☐	☐
k. Are any portions of the sewer system at or near capacity	☐	☒	☐	☐

Comments:

I. SLUDGE MANAGEMENT

	YES	NO	N/A	N/E
a. Sludge adequately disposed. Method:	☐	☐	☒	☐
b. If sludge is incinerated, where is ash disposed of?	☐	☐	☐	☐
c. Is sludge disposal contracted? Name:	☐	☐	☐	☐
d. Has amount of sludge generated changed significantly since last inspection	☐	☐	☐	☐
e. Adequate sludge storage provided at facility	☐	☐	☐	☐
f. Land application sites monitored and inspected per state rules	☐	☐	☐	☐
g. Records kept in accordance with state rules	☐	☐	☐	☐
h. Any complaints received in last year regarding sludge	☐	☐	☐	☐
i. Is sludge adequately processed (digestion, dewatering, pathogen control) in accordance with Ohio EPA rules	☐	☐	☐	☐

Comments:
Lagoon system

I. SELF-MONITORING PROGRAM

Part 1 – Flow Measurement	YES	NO	N/A	N/E
a. Primary flow measuring device properly operated & maintained. Type of device: ☒ Ultrasonic & parshall flume ☐ Calculated from influent ☐ Weir ☐ Other ☐ Ultrasonic & weir specify:	☒	☐	☐	☐
b. Calibration frequency adequate. Date of last calibration: 4/28/10	☒	☐	☐	☐
c. Secondary instruments (totalizers, recorders, etc.) properly operated and maintained	☒	☐	☐	☐
d. Flow measurement equipment adequate to handle expected ranges of flows	☒	☐	☐	☐
e. Actual flow discharged is measured	☒	☐	☐	☐
f. Flow measuring equipment inspection frequency: ☒ Daily ☐ Monthly ☐ Weekly ☐ Other				

Comments:

Part 2 – Sampling	YES	NO	N/A	N/E
a. Sampling locations(s) are as specified by permit	☒	☐	☐	☐
b. Parameters and sampling frequency agree with permit	☒	☐	☐	☐
c. Permittee uses required sampling method	☐	☒	☐	☐
d. Sample collection procedures are adequate	☐	☒	☐	☐
i. Samples refrigerated during compositing	☐	☒	☐	☐
ii. Proper preservation techniques used	☒	☐	☐	☐
Conform with 40 CFR 136.3	☐	☐	☐	☐
e. Monitoring records (e.g., flow, pH, D.O., etc.) maintained for a minimum of three years including all original strip chart recordings (e.g., continuous monitoring instrumentation, calibration, & maintenance records)	☒	☐	☐	☐
f. Adequate records maintained of sampling date, time, exact location, etc.	☒	☐	☐	☐

Comments:

Part 3 – Laboratory, General	YES	NO	N/A	N/E
a. Written Standard Operating Procedures (SOPs) for all analysis performed on-site	☐	☒	☐	☐
b. EPA approved analytical testing procedures used (40 CFR 136.3)	☐	☐	☐	☐
c. If alternate analytical procedures are used, proper approval has been obtained	☐	☐	☐	☐
d. Analyses being performed more frequently than required by permit	☐	☐	☐	☐
e. If (c) is yes, are results reported in permittee's self-monitoring report	☐	☐	☐	☐
f. Commercial laboratory used: 1. Parameters analyzed by commercial lab: NH3, FC, Hg 2. Lab name: Masi				

Comments:
Develop SOPs for all analysis performed on-site.

Part 3 – Laboratory, Quality Control/Quality Assurance	YES	NO	N/A	N/E
a. Quality assurance manual provided and maintained	☐	☐	☒	☐
b. Satisfactory calibration and maintenance of instruments and equipment	☐	☐	☐	☒
c. Adequate records maintained	☐	☐	☐	☒

Comments:

J. EFFLUENT/RECEIVING WATER OBSERVATIONS

Outfall #	Oil Sheen	Grease	Turbidity	Visible Foam	Visible Float Solids	Color	Other
001	None	None	None	Slight	None	None	

Comments:

K. MULTIMEDIA OBSERVATIONS

Collection System	YES	NO	N/A	N/E
a. Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories	☐	☒	☐	☐
b. Do you notice staining or discoloration of soils, pavement, or floors	☐	☒	☐	☐
c. Do you notice distressed (unhealthy, discolored, dead) vegetation	☐	☒	☐	☐
d. Do you see unidentified dark smoke or dustclouds coming from sources	☐	☒	☐	☐
e. Do you notice any unusual odors or strong chemical smells	☐	☒	☐	☐
f. Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities	☐	☒	☐	☐

If any of the above are observed, ask the following questions:

1. What is the cause of the conditions?
2. Is the observed condition or source a waste product?
3. Where is the suspected contaminant normally disposed?
4. Is this disposal permitted?
5. How long has the condition existed and when did it begin?

Comments: