



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

October 29, 2012

Mr. Kevin Eby, Director
Licking County Water and Wastewater
P.O. Box 490
Newark, OH 43058

**Re: Buckeye Lake WWTP
NPDES Permit 4PJ00000/ OH0039098
Compliance Evaluation Inspection
Licking County**

Dear Mr. Eby:

On October 25, 2012, a Compliance Evaluation Inspection was conducted at the Buckeye Lake WWTP. Present for the inspection were Kevin Eby and Paul Townley representing Licking County and myself of the Ohio EPA, Central District Office, Division of Surface Water.

The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant. The enclosed inspection report contains the details of the inspection. If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3854 or e-mail at paul.vandermeer@epa.ohio.gov.

Sincerely

A handwritten signature in black ink, appearing to read "Paul Vandermeer", with a long horizontal flourish extending to the right.

Paul L. Vandermeer
Environmental Specialist
Compliance and Enforcement Unit
Division of Surface Water
Central District Office

ec: Paul L. Vandermeer

PLV/nsm Buckeye Lake WWTP

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PJ00000	OH0039098	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
10/25/2012	9:00 am	11:30 am	No	No

SECTION B: FACILITY DATA

Name and Location of Facility Inspected	Permit Effective Date
Buckeye Lake WWTP 458 Hilton Rd. Buckeye Lake, OH	7/1/2012
	Permit Expiration Date
	12/31/2016
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Paul Townley, Operations Superintendent	(740) 928-3397
Name and Title of Responsible Official	Phone Number
Kevin Eby, Director, Licking County Water and Wastewater	(740) 670-5437

SECTION C: AREAS EVALUATED DURING INSPECTION

Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated

S*	NPDES Compliance	
S	Operations & Maintenance	<i>Work order system promotes regular maintenance</i>
S	Facility Site Review	
S	Collection System	<i>Inspected pump stations C, D, and F</i>
S	Flow Measurement	
S	Receiving Waters	
S	Laboratory	

Comments: * *E. coli* frequency and pH limit violations have been corrected. No further frequency or effluent violations have occurred. Sludge sampling procedures have been altered in order to avoid land application of sludge with elevated metals (e.g., molybdenum).

Signatures

	10/26/12		10/29/12
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Mike Gallaway, Reviewer Section Manager Division of Surface Water Central District Office	Date

Compliance Data for Buckeye Lake WWTP between 2/1/2012 to 10/1/2012

Summary

Permit Effluent Limit Violations: 2
 Permit Effluent Code Violations: 0
 Permit Effluent Frequency Violations: 4
 Compliance Schedule Violations: 0

Limit Violation						
Reporting Period	Station	Parameter	Limit Type	Limit	Observed	Violation Date
February 2012	001	pH, Maximum	1D Conc	9.0	9.2	2/10/2012
June 2012	581	Molybdenum In Sludge	1D Conc	75	80.8	6/1/2012

Frequency Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
July 2012	001	E. coli	3/Week	3	1	7/1/2012
July 2012	001	E. coli	3/Week	3	0	7/8/2012
July 2012	001	E. coli	3/Week	3	0	7/15/2012
July 2012	001	E. coli	3/Week	3	0	7/22/2012

Flow Data for Buckeye Lake WWTP between 2/1/2012 and 10/1/2012

	Date	Flows (MGD)
Ten Highest Flows	3/15/2012	5.022
	3/16/2012	4.002
	3/17/2012	3.021
	3/18/2012	3.000
	3/8/2012	2.962
	3/21/2012	2.940
	9/2/2012	2.883
	9/1/2012	2.779
	3/19/2012	2.119
	2/29/2012	1.875
Average Flow Rate		0.837

SECTION D: PERMIT VERIFICATION

- (a) Correct name and mailing address of permittee Y
- (b) Correct name and location of receiving waters Y
- (c) Products and production rates conform with permit application Y
- (d) Flows and loadings conform with NPDES permit..... Y
- (e) Treatment processes are as described in permit application Y
- (f) New treatment process added since last inspection N
- (g) Notification given to State of new, different or increased discharges NA
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments:

SECTION E: COMPLIANCE

- (a) Any significant violations since the last inspection N
- (b) Permittee is taking actions to resolve violations..... NA
- (c) Permittee has a compliance schedule N
- (d) Permittee is meeting compliance schedule NA

Comments:

SECTION F: OPERATION AND MAINTENANCE

- (a) Standby power available Y
If yes, what type? *Diesel generator*
- (b) Adequate alarm system available for power or equipment failures Y^
- (c) All treatment units in service other than backup units Y*
- (d) Wastewater Treatment Works classification III
- (e) Operator of Record holds unexpired license of class required by Permit.. Y
Class held: *III*
- (f) Copy of certificate of Operator of Record displayed on-site Y
- (g) Minimum operator staffing requirements fulfilled..... Y
- (h) Routine and preventative maintenance scheduled and performed Y
- (i) Any major equipment breakdown since last inspection..... N
- (j) Operation and maintenance manual provided and maintained Y
- (k) Any plant bypasses since last inspection N
- (l) Regulatory agency notified of bypasses NA
By MOR and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic or organic overloads since last inspection N

Comments: ^SCADA system. *Primary clarifiers are undergoing refurbishment one by one. The third of three units is offline for refurbishment.

SECTION G: RECORD KEEPING

- a) Log book provided Y
- b) Format of log book Book
- c) Log book(s) kept onsite in an area protected from weather Y
- d) Log book contains the following:
 - i) Identification of treatment works Y
 - ii) Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7 Y*
 - iii) Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs) Y
 - iv) Laboratory results (unless documented on bench sheets) N**
 - v) Identification of person making log entries Y
- e) Has the Operator of Record submitted written notification to the permittee, Ohio EPA and any applicable local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred? ... Y

Comments: **Time sheets are coded into the computer and show the hours of each operator. **Bench sheets contain laboratory results and calibration data for each test.*

SECTION H: COLLECTION SYSTEM

- a) Percent combined system: 0%
- b) Any collection system overflows since last inspection N
 CSO SSO
- c) Regulatory agency notified of overflows NA
- d) CSO O&M plan provided and implemented NA
- e) CSOs monitored and reported in accordance with permit NA
- f) Portable pumps are used to relieve system N
- g) Lift station alarms provided and maintained Y
- h) Lift stations equipped with permanent standby power or equivalent Y*
- i) Is there an inflow/infiltration problem (separate sewer system), or were there any major repairs to collection system since last inspection. N**
- j) Any complaints received since last inspection of basement flooding N
- k) Are any portions of the sewer system at or near capacity N
- l) Are operations changed during high-flow events? N^

Comments: **Five of the nine lift stations have permanent standby power. The other 4 have large wet-wells and relatively small flows, so a short period of power outage does not cause problems. A portable generator can be accessed to allow pumping if power is out more than 12 hours. **Following the satisfaction of the Consent Decree, Licking County has continued to use a schedule to provide maintenance to the collection system. ^EQ basin at the WWTP will fill if flows increase sufficiently due to precipitation.*

SECTION I: SLUDGE MANAGEMENT

- a) Sludge adequately disposed Y
Method: *Land application or landfilling*
- b) If sludge is incinerated, where is ash disposed of NA
- c) Is sludge disposal contracted Y
Name: *Agri-Sludge (land application), Waste Management (landfill)*
- d) Has amount of sludge generated changed significantly N
- e) Adequate sludge storage provided at plant Y
- f) Records kept in accordance with State and Federal law Y
- g) Any complaints received last year regarding sludge N
- h) Is sludge adequately processed (digestion, pathogen control) Y

Comments:

SECTION J: SELF-MONITORING PROGRAM

- a) Primary flow measuring device operated and maintained Y
Type of device: *Ultrasonic* Device location: *Effluent channel*
- b) Calibration frequency adequate Y
Date of last calibration: *8/31/12*
- c) Secondary instruments operated and maintained Y
- d) Flow measurements equipment adequate to handle full range of flows Y
- e) Actual flow discharged is measured Y
- f) Flow measuring equipment inspection frequency Daily
- g) Sampling location(s) are as specified by permit Y
- h) Parameters and sampling frequency agree with permit Y
- i) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e. continuous monitoring instrumentation, calibration and maintenance records) Y

Comments:

SECTION K: Laboratory

- a) EPA applicable analytical testing procedures used (40 CFR 136.3) Y
- b) If alternate procedures are used, are they properly approved? NA
- c) Analysis performed more frequency N
If yes, are results recorded in permittee's report? NA
- d) Commercial laboratory used:
Name: *Coshocton Environmental Testing, Alloway*
Parameters analyzed: *See comments**
- e) Quality assurance manual provided and maintained Y
- f) Calibration and maintenance of instruments is satisfactory? Y

Comments: *Coshocton Environmental Testing analyzes all parameters except pH, dissolved oxygen, and temperature. Alloway performs only toxicity testing.

SECTION L: EFFLUENT/RECEIVING WATER OBSERVATIONS

Outfall Number	Outfall sign in place	Oil Sheen	Grease	Turbidity	Foam	Solids	Color	Other
001	Yes	None	None	None	None	None	Clear	

Comments:

SECTION M: MULTIMEDIA OBSERVATIONS

- a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories N
- b) Do you notice staining or discoloration of soils, pavement or floors N
- c) Do you notice distressed (unhealthy, discolored, dead) vegetation N
- d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks N
- e) Do you notice any unusual odors or strong chemical smells N
- f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities N

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

- 1) What is the cause of the condition?
- 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: