



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

Re: Crawford County  
City of Bucyrus  
NPDES Permit

January 16, 2013

Mayor and Council  
City of Bucyrus  
500 South Sandusky Avenue  
Bucyrus, Ohio 44820

Dear Mayor and Council:

On December 19, 2012, an inspection was conducted at the City of Bucyrus Waste Water Treatment Plant (WWTP). The inspection included a tour of the facility and completion of a checklist designed to evaluate the major areas of the treatment plant. Mr. Terry Spiegel, Superintendent, provided information to Ohio EPA representatives Ms. Michelle Sharp and Ms. Peggy Christie. Our inspection findings and recommendations are summarized below.

At the time of the inspection, all major treatment units were in operation. The flow entering the plant was light in color. The mixed liquor in the aeration tanks was also light in color, but was receiving an adequate amount of air. Some solids were observed on the surface of the secondary clarifiers. The effluent appeared clear.

A review of your discharge monitoring reports (DMRs) from November 2011 through November 2012 shows violations of the terms and conditions of your permit. The specific instances of non-compliance are enclosed.

A copy of our completed inspection report is enclosed for your records. If you have any questions, please call Michelle Sharp at (419) 373-3019.

Yours truly,

Elizabeth A Wick, P.E.  
Environmental Engineer/Section Manager  
Division of Surface Water

MS/jlm

Enclosures

pc: Terry Spiegel, Superintendent, City of Bucyrus WWTP  
ec: Tracking

Permit # : OH0052922  
 NPDES # : 2PD00021



State of Ohio Environmental Protection Agency  
 Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
OH0052922	2PD00021	12/19/2012	S	C	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Bucyrus 1500 West Southern Avenue Bucyrus, OH 44820	10:00 AM	3/1/2010
	Exit Time	Permit Expiration Date
	11:00 AM	9/30/2014
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Mr. Terry Spiegel, Superintendent		419-562-8981
Name, Address and Title of Responsible Official		Phone Number
Mayor and Council City of Bucyrus 500 S Sandusky Ave. Bucyrus, Ohio 44820		419-562-6767

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	S	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
Inspector	Reviewer
<i>Michelle Sharp</i> 1/15/13 Michelle Sharp Date Environmental Specialist II Division of Surface Water Northwest District Office	<i>Thomas Poffenbarger</i> 1/15/13 Thomas Poffenbarger, P.E. Date Water Quality Engineer II/Unit Supervisor Division of Surface Water Northwest District Office

Permit #: OH0052922529522  
NPDES #: 2PD00021

Sections E thru K: Complete on all inspections as appropriate  
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

**Section E: Permit Verification**

Inspection observations verify the permit

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

Comments/Status:

**Section F: Compliance Schedules/Violations**

- |   |     |
|---|-----|
| (a) Any significant violations since the last inspection.....   | N   |
| (b) Permittee is taking actions to resolve violations.....  | N/A |
| (c) Permittee has a compliance schedule.....  | Y   |
| (d) Compliance schedule contained in <span style="border: 1px solid black; padding: 2px;">NPDES Permit</span> |     |
| (e) Permittee is meeting compliance schedule.....   | Y   |

Comments/Status:

Industrial surveys were sent out in the end of December.

**Section G: Operation & Maintenance**

**Treatment Works:**

Treatment facility properly operated and maintained

- (a) Standby power available....generator  or dual feed ..... Y
- (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 (OAC 3745-7)..... III
- (e) Operator of Record holds unexpired license of class required by permit..... Y  
Class: III
- (f) Copy of certificate of Operator of Record displayed on-site.... Y
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... Y
- (h) Routine and preventative maintenance scheduled/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/A
- (l) Regulatory agency notified of bypasses..... N/A  
On MORs  and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic and/or organic overloads since last inspection..... Y

**Record Keeping:**

- (a) Log book provided..... Y
- (b) Format of log book (i.e. computer log, hard bound book)  

Hard bound notebooks and time sheets
--------------------------------------
- (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)... Y
  - V. Identification of person making log entries..... Y
- (d) Has the operator of record submitted written notification to the permittee, Ohio EPA and (if applicable) any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... Y

**Section G: Operation & Maintenance (con't)**

**Collection System:**

- (a) Percent combined system: 78%
- (b) Any collection system overflows since last inspection..... Y  
(CSO  and/or SSO )
- (c) Regulatory agency notified of overflows (SSOs)..... N/A
- (d) CSO O&M plan provided and implemented..... Y
- (e) CSOs monitored and reported in accordance with permit..... Y
- (f) Portable pumps used to relieve system..... N
- (g) Lift station alarms provided and maintained..... Y
- (h) Are lift stations equipped with permanent standby power  
or equivalent..... N
- (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 Y
- (k) Are any portions of the sewer system at or near capacity..... N/E

**Comments/Status:**

(j) Feb of 2012 – 3 or 4

**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date: 3/20/2004 Approval #: Not submitted  N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y  
(Method: Land Apply)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... N  
(Name: )
- (f) Has amount of sludge generated changed significantly since  
last inspection..... N
- (g) Adequate sludge storage provided at plant..... Y
- (h) Land application sites monitored and inspected per SMP..... N/A
- (i) Records kept in accordance with State and Federal law..... Y
- (j) Any complaints received in last year regarding sludge..... N
- (k) Is sludge adequately processed (digestion, pathogen control)..... Y

**Comments/Status:**

The plant processes sludge 3.5 - 4 days per week.

**Section I: Self-Monitoring Program**

**Flow Measurement:**

- (a) Primary flow measuring device operated and maintained..... Y  
Type of device: Ultrasonic & Parshall flume  Ultrasonic & Weir  Weir   
Calculated from influent  Other  (Specify: )
- (b) Calibration frequency adequate ..... Y  
(Date of last calibration: 3/2012)
- (c) Secondary instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range  
of flows..... Y
- (e) Actual flow discharged is measured..... Y
- (f) Flow measuring equipment inspection frequency  
 Daily  Weekly  monthly  other

**Comments/Status:**

**Section I: Self-Monitoring Program (con't)**

**Sampling:**

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... Y
- (d) Sample collection procedures are adequate..... Y
  - (i) Samples refrigerated during compositing..... Y
  - (ii) Proper preservation techniques used..... Y
  - (iii) Containers and sample holding times prior to analysis conform with 40 CFR 136.3..... Y
- (e) 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
- (f) Adequate records maintained of sampling date, time, location, etc.. Y

**Laboratory:**

*General*

- (a) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (b) If alternate analytical procedures are used, proper approval has been obtained..... N/A
- (c) Analyses being performed more frequently than required by permit. N
- (d) If (c) is yes, are results in permittee's self-monitoring report..... N/A
- (e) Commercial laboratory used..... Y  
Parameters analyzed by commercial lab: Metals and Bioassay

Lab name: Alloway

*Quality Control/Quality Assurance*

- (f) Quality assurance manual provided and maintained..... Y
- (g) Satisfactory calibration and maintenance of instruments/equipment. Y
- (h) Adequate records maintained..... Y
- (i) Results of latest USEPA quality assurance performance sampling program:  Satisfactory  Marginal  Unsatisfactory

Date: 2012

**Comments/Status:**

**Section J: Effluent/Receiving Water Observations**

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Other
001	None	None	None	None	None	Clear	

**Comments/Status:**

**Section K: 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/Status:**

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection	S	
	Safety Features	S	
	Bypasses	OUT	
	Stormwater Overflows		
	Alternate Power Source	OUT	Generator not running
Preliminary	Maintenance of Collection Systems	N	
	Pump Station	IN	
	Ventilation	S	
	Bar Screen	IN	
	Disposal of Screenings	S	Landfill
	Comminutor		
	Grit Chamber	IN	Aerated, Light in Color
	Disposal of Grit	S	Landfill
Primary	Settling Tanks	In	
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters	IN	
	Temperature and pH	S	
	Gas Production	S	
	Heating Equipment	S	
	Sludge Pumps	S	
	Disposal of Sludge	S	Land Apply
	Sludge Holding Tank		
	Sludge Thickener		
Belt Filter Press	OUT		
Other	Flow Meter and Recorder	IN	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	S	
Secondary-Tertiary List items as required	Aeration Tank	IN	Light in color, Adequate Air
	Blowers	IN	
	Secondary Clarifiers	IN	2 units, some solids floating but clear effluent
	Filters	IN	
Disinfection	Effluent	S	Clear
	Disinfection System	OUT	UV
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
7/15/2012	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	4.42
7/24/2012	001	61942	pH, Minimum	1D Conc	6.5	6.39
7/26/2012	001	61942	pH, Minimum	1D Conc	6.5	6.31
7/27/2012	001	61942	pH, Minimum	1D Conc	6.5	6.34
7/28/2012	001	61942	pH, Minimum	1D Conc	6.5	6.45
7/29/2012	001	61942	pH, Minimum	1D Conc	6.5	6.42
8/2/2012	001	61942	pH, Minimum	1D Conc	6.5	6.23
8/14/2012	001	61942	pH, Minimum	1D Conc	6.5	6.31
8/23/2012	001	61942	pH, Minimum	1D Conc	6.5	6.46
8/26/2012	001	61942	pH, Minimum	1D Conc	6.5	6.36
9/8/2012	001	61942	pH, Minimum	1D Conc	6.5	6.46
9/22/2012	001	31648	E. coli	7D Conc	362	4022.20