



**Environmental
Protection Agency**

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

Re: Wood County
Bowling Green WWTP
NPDES Permit

June 13, 2012

Mr. Brian O'Connell, P.E.
Director of Utilities
City of Bowling Green
P.O. Box 388
Bowling Green, Ohio 43402

Dear Mr. O'Connell:

On April 4, 2012, a compliance inspection of the Bowling Green Wastewater Treatment Plant (WWTP) was conducted by Patricia Tebbe. Mr. Doug Clark and Mr. John Bella were present and provided information on plant operation and maintenance. The inspection included a walkthrough of the plant and completion of the enclosed checklist.

At the time of the inspection, all major components were in operation with the exception of the influent pump station, which was out for repairs. Plans are being made to add a screw pump in September 2012 in order to maintain discharge capacity of the WWTP at 30 MGD during wet weather.

The media was changed in the biofilter approximately one and one-half years ago. However, the media used was of a smaller size than required and will need to be replaced in the near future in order to reduce and/or eliminate odors emanating from the ATAD process.

The National Pollutant Discharge Elimination System (NPDES) permit was issued to the WWTP last August. The only effluent violations noted since the permit was issued are the lack of testing for total dissolved solids and oil & grease in the first two weeks of September 2011.

Our completed inspection form is enclosed. If you have any questions, please contact Patricia Tebbe at (419) 373-3016.

Sincerely,

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

PAT/jlm
Enclosures

pc: Mayor and Council, City of Bowling Green
Doug Clark, Superintendent, WWTP
John Bella, Assistant Superintendent, WWTP
ec: Tracking

Permit #: 2PD00009
 NPDES #: OH0024139



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
2PD00009	OH0024139	04/04/12	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Bowling Green WWTP 901 North Dunbridge Road Bowling Green, OH 43402	9:00am	8/1/2011
	Exit Time	Permit Expiration Date
	11:00 am	12/31/2015
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Doug Clark, Superintendent John Bella, Asst. Superintendent	419-354-6274	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council, City of Bowling Green 304 N. Church St. PO Box 388 Bowling Green, OH 43402	419-354-6246	

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	S	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)			
Inspector		Reviewer	
 Patricia A. Tebbe, P.E. Division of Surface Water Northwest District Office		 Thomas Poffenbarger, P.E. Water Quality Engineer II/Unit Supervisor Division of Surface Water Northwest District Office	
Date: 4/13/12		Date: 4/13/12	

Permit #: 2PD00009
NPDES #: OH0024139

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 application (Industries)..... N
- (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 discharges..... N
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments/Status:

Plans for Poe/Mercer Rd Pump Station upgrade and additional Screw Pump

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
- (e) Permittee is meeting compliance schedule..... Y

Comments/Status:

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator x or dual feed x..... 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)..... IV
- (e) Operator of Record holds unexpired license of class required by permit..... Y
 Class: IV
- (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..... Y
- (j) Operation and maintenance manual provided and maintained..... Y
- (k) Any plant bypasses since last inspection..... N
- (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..... N

Record Keeping:

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

Daily log is hard bound and computer records
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- (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.....(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: 30%
- (b) Any collection system overflows since last inspection..... Y
 (CSO x and/or SSO)
- (c) Regulatory agency notified of overflows (SSOs)..... N/A
- (d) CSO O&M plan provided and implemented..... N/A
- (e) CSOs monitored and reported in accordance with permit..... Y
- (f) Portable pumps used to relieve system (SSOs)..... Y
- (g) Lift station alarms provided and maintained..... Y
- (h) Are 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..... Y
- (j) Any complaints received since last inspection of basement flooding N
- (k) Are any portions of the sewer system at or near capacity..... Y

Comments/Status:

Treatment Works:
 a - AMP Ohio station next to WWTP
 i - Raw pump down, to be repaired within week
 i - Pump station upgrade scheduled for September

Collection System
 b - Conneaut St
 h - have two spare generators

Biofilter - changed media 1 ½ years ago but the media used was too small so needs to be changed again.

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: Approval #: Not submitted N/A X
- (b) Sludge management plan current..... N/A
Y
- (c) Sludge adequately disposed..... Y
(Method: to soil blender)
- (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..... Y
- (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:

Dried sludge taken to Palmer Bros for soil blending (class A)

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary flow measuring device operated and maintained..... Y
Type of device: Ultrasonic & Parshall flume X Ultrasonic & Weir Weir
Calculated from influent Other X (Specify:effluent)
- (b) Calibration frequency adequate Y
(Date of last calibration:)
- (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 Xmonthly other

Comments/Status:

b – calibration done monthly

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..... Y
- (c) Analyses being performed more frequently than required by permit. Y
- (d) If (c) is yes, are results in permittee's self-monitoring report..... Y
- (e) Commercial laboratory used..... Y
Parameters analyzed by commercial lab: metals, O & G, sludge, nitrates/nitrites, TDS, MBA, hardness, low level Hg, fecal in sludge
Lab name: Jones & Henry

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: Y Satisfactory Marginal Unsatisfactory
Date: DMRQA 30

Comments/Status:

Have SOPs for all lab systems, lab program training by Alloway

Alloway tests surfactants for Lubrizol

Section J: Effluent/Receiving Water Observations

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Other
001	0	0	0	0	0	0	0

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		
	Safety Features	S	Facility fenced
	Bypasses	OUT	
	Stormwater Overflows	OUT	4 MG Equalization/Wet Weather Basin
	Alternate Power Source	S	Black Start – not tested in past year, AMP power station next to WWTP
Preliminary	Maintenance of Collection Systems		
	Pump Station		
	Ventilation		
	Bar Screen	In	2 mechanical, 1 in, rotate use at pump station
	Disposal of Screenings	S	To landfill
	Grit Chamber	In	Aerated, hand skim occasionally; generate one box of waste/10 days
	Disposal of Grit	S	To landfill
	Influent Pump Station	Out	Work being done on Poe Rd pump station during inspection 4 raw pumps; normal flows 2 in use
Primary	Settling Tanks	In	2 available, 1 in; rotate seasonally, use second during high flows
	Scum Removal	In	Skimmings to sludge screen building
	Sludge Removal	In	
	Effluent	S	
Sludge Disposal	Digesters	In	2 ATAD 3 sludge storage – have about 60% capacity available Biofilter media needs replacing
	Sludge Pumps	In	5 RAS – rotated daily, normally 2 on line; 2WAS – not in
	Centrifuge	In	Used 3 days/week – 2 truckloads
	Disposal of Sludge	S	Take to Palmer Bro, compost facility
Other	Flow Meter and Recorder	In	Doppler ultrasonic – meter on effluent
	Records	S	
	Lab Controls	S	QA/QC program
	Chemical Treatment	In	Ferrous chloride added to end of aeration, used to precipitate P
Secondary-Tertiary List items as required	Aeration Tanks (conv. activated sludge)	In	6 units, two trains of three each; good color and air; go to step feed when Flow is > 12 MGD otherwise conventional activated sludge
	Final Clarifiers	In	2 units
	Media Filters	In	2 in, alternate with 2 others and 2 out for cleaning
	Blowers	In	4 units; 1 in, exercise blowers quarterly
	Screw pumps	In	2 units; one in; plans to add a third in September, 2012
Disinfection	Effluent	S	4.5 MGD at time of inspection
	Disinfection System	Out	UV installed
	Effective Dosage		
	Contact Time	S	
	Contact Tank	S	
	Septic Receiving Station	In	Receive about 18 loads per day