



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

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

Re: Huron County
City of Bellevue WWTP
NPDES Permit

February 22, 2008

Mr. Jeffrey Crosby
Safety Service Director
City of Bellevue
3000 Seneca Industrial Pkwy.
Bellevue, OH 44811

On January 11, 2008, Andrew Gall conducted an NPDES permit compliance inspection of the wastewater treatment facilities serving the City of Bellevue. Mr. Eric MacMichael was present and provided information on plant operations and maintenance. The inspection included a tour of the facility and completion of the enclosed compliance inspection form. At the time of the visit, the plant appeared to be operating correctly and a clear final effluent was being discharged to Snyder's Ditch. No samples were taken to verify compliance with permit limits.

Several maintenance projects have recently been completed at the plant including the installation of telemetry on the influent and RAS pumps, the addition of metal safety chains and replacement of the plywood valve covers with metal grating. Mr. MacMichael stated that several additional projects are planned for the upcoming year, including rehab of the UV system, installing telemetry on the blower system, replacement of the equipment in at least one of the grit chamber tanks, rehabilitation of at least one intermediate tank and moving the lab into the existing maintenance shop.

Additional projects are also planned on the collection system this year and will include the installation of telemetry on the lift stations. The I/I problems on Delmoy St. will be investigated through smoke testing, installation of manhole dishes and possible slip lining of the sanitary sewer pipe.

A review of monthly operating reports since our last inspection on April 10, 2007, indicates that there have been limit violations of Total Phosphorus, Nitrogen Ammonia (NH₃) and Fecal Coliform. A copy of these violations is enclosed for your review. Mr. MacMichael indicated that Phosphorus and Ammonia violations are the result of the high organic loads the WWTP receives from Solae. Mr. MacMichael continues to work with Solae to address the high loadings by enforcing the requirements of their pretreatment permit and through surcharges to cover the additional cost of the treatment the City has to provide. It is anticipated that the overhaul of the UV system will address the fecal coliform violations.

Mr. Jeffrey Crosby
February 22, 2008
Page Two

We were pleased to be informed that two lab tech/operators are being hired and should be starting work within the next month. It was indicated that your existing lab director will be contracted to help train the new lab techs. Each new employee will spend part of their time in the lab and part of their time on plant operations.

Our completed inspection report is enclosed for your review. If you have any questions, please feel free to contact Mr. Andrew Gall at (419) 373-3003 or via email at andrew.gall@epa.state.oh.us

Yours truly,



Elizabeth A. Wick, P.E.
District Engineer
Division of Surface Water

/lb

Enclosures

pc: Eric MacMichael, Superintendent, Bellevue WPCF

~~NWDC:DSW, file, w/enclosure~~



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
2PD00037	OH0020672	1/11/2008	C	S	11

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Bellevue WPCF 500 Great Lakes Pkwy. Bellevue, OH 44811	12:00 PM	7/1/2007
	Exit Time	Permit Expiration Date
	2:00 PM	1/31/2012
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Eric MacMichael, Superintendent	(419) 483-7514	
Name, Address and Title of Responsible Official	Phone Number	
Mr. Jeff Crosby, Safety Service Director City of Bellevue 3000 Seneca Industrial Pkwy. Bellevue, OH 44811	(419)484-8400	

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

Section D: Summary of Findings (Attach additional sheets if necessary)			
Inspector		Reviewer	
<i>Andrew Y. Gall</i>	<i>2/20/08</i>	<i>Elizabeth A. Wick</i>	<i>2/20/08</i>
Andrew Y. Gall Environmental Specialist II Division of Surface Water Northwest District Office	Date	Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office	Date

--	--

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

Comments/Status:

--

Section F: Compliance Schedules/Violations

- (a) Any significant violations since the last inspection..... Y
- (b) Permittee is taking actions to resolve violations..... Y
- (c) Permittee has a compliance schedule..... N
- (d) Compliance schedule contained in
- (e) Permittee is meeting compliance schedule..... N/A

Comments/Status:

A. Phosphorus and NH3 violations due to high loadings from Solae and Fecal violations are due to UV equipment failure.

B. City is working with Solae to address high loadings through pre-treatment permits and will be overhauling the UV system prior to next disinfection season.

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)... N/E
- (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..... Y

Record Keeping:

- (a) Log book provided..... N/E
- (b) Format of log book (i.e. computer log, hard bound book)
- (c) Log book(s) kept onsite (in an area protected from weather)..... N/E
- (d) Log book contains the following:
 - I. Identification of treatment works..... N/E
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... N/E
 - III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request

- for repairs)..... N/E
- IV. Laboratory results (unless documented on bench sheets)... N/E
- V. Identification of person making log entries..... N/E
- (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: 0%
- (b) Any collection system overflows since last inspection..... N/A
(CSO 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..... N/A
- (f) Portable pumps used to relieve system..... N
- (g) Lift station alarms provided and maintained..... N
- (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..... 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

Comments/Status:

Treatment Works:
 B. Telemetry will be installed on blowers this year
 D. Two operators/lab techs will be added to staff within next month
 F. Safety and Operation and Maintenance Schedule will be redone this year
 G. UV System is showing its age and broke down several times this year, will be overhauled prior to 2008 disinfection season
 K. Organic overloadings from Solae

Collection System:
 C. During large rain events street flood and water enters sanitary sewer system, manhole dish inserts are being purchased and installed this year
 G. Telemetry system will be installed on lift station this year, Atwood will be very soon
 I. Delmoj St. has I/I problems, manholes have dishes, may slip line sewers this year

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: Approval #: Not submitted N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y
(Method: Land Application, Landfill, Composting)
- (d) If sludge is incinerated, where is ash disposed of N/A
- (e) Is sludge disposal contracted..... Y
(Name: Mapleview Farms does land application)
- (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:

Sludge requirements and limits included in NPDES permit.
Began using belt press to gravity thicken sludge to help reduce hauling frequency.

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: 11/1/2007)
- (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..... N
- (f) Flow measuring equipment inspection frequency
 Daily Weekly monthly other

Comments/Status:

- A. New influent flow meter installed in November, 2007
- B. Mag meter being installed on WAS pumps
- C. Looking at effluent flow meter solutions

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: Mercury, Metals, Sludge, Oil and Grease, Toxicity.

Lab name: Jones and Henry and 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: 6/1/2007

Comments/Status:

I. For DMRQ Ammonia sampling probe was bad, probe was replaced and sample resubmitted.

Process control sampling done, samples are grabs and not composites

Section J: Effluent/Receiving Water Observations

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Other
001	None	None	None	Very slight	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..... Y
- (b) Do you notice staining or discoloration of soils, pavement or floors.. Y
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. Y
- (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?

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

Form Approved
OMB No. 158-R0035

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	Metal Safety Chains Installed, Metal grating installed over valves
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	S	Generator
Preliminary	Maintenance of Collection Systems	S	I/I reduction through smoke testing and installing manhole dishes
	Pump Station	In	Back up power at Atwood, Adding Telemetry to stations this year
	Ventilation	S	
	Bar Screen	In	
	Disposal of Screenings / Grit	S	Landfill
	Grit Chamber	In	1 Chamber online, 1 Chamber broken, grit system to be refurbished this year
	Septage Receiving Station	In	
	Alum Feed System	In	
Primary	Settling Tanks	In	Baffles and skimmer were replaced last year
	Scum Removal	-	
	Sludge Removal	-	
	Effluent	S	
Sludge Disposal	Digesters	In	4 aerobic, using belt press to gravity thicken sludge to 6%-7% solids
	Temperature and pH	-	
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	In	4 Moyno sludge pumps
	Sludge Belt Filter Press	In	Ashbrook Belt Filter Press
	Disposal of Sludge	S	Mapleview Farms - Land Applies Liquid
	In-Vessel Compost Bins	OUT	Eight bins are off line
Other	Flow Meter and Recorder	In	Influent Flow Meter, New Chart Recorder and meters installed in December
	Records	S	
	Lab Controls	S	New pH meter
	Chemical Treatment	In	Alum
Secondary-Tertiary List items as required	Primary Trickling Filters	In	2 Filters
	Aeration Tanks	In	4 tanks, operating in contact stabilization mode
	Intermediate Clarifiers	In	3 tanks online, low foam, low scum,
	Filtrate Clarifier	Out	Used when sludge press is operated
	Final Clarifiers	In	2 in operation
Disinfection	Effluent	S	Clean, No Foam, No Odor
	Disinfection System	Out	(UV) - Out of season, system being overhauled this winter
	Effective Dosage	-	
	Contact Time	-	
	Contact Tank	-	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00037*ID	May 2007	001	31616	Fecal Coliform			AK	5/1/2007
2PD00037*ID	May 2007	001	31616	Fecal Coliform			AK	5/9/2007
2PD00037*ID	June 2007	001	31616	Fecal Coliform			AK	6/20/2007
2PD00037*ID	June 2007	801	31616	Fecal Coliform			AK	6/20/2007
2PD00037*ID	June 2007	002	31616	Fecal Coliform			AK	6/20/2007
2PD00037*ID	June 2007	003	31616	Fecal Coliform			AK	6/20/2007
2PD00037*JD	August 2007	001	31616	Fecal Coliform			AK	8/23/2007
2PD00037*JD	September 2007	001	31616	Fecal Coliform			AK	9/7/2007
2PD00037*JD	October 2007	001	31616	Fecal Coliform			AK	10/24/2007

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	LimitType	Limit	Reported Value	Violation Date
2PD00037*ID	May 2007	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.9375	5/1/2007
2PD00037*ID	May 2007	001	00665	Phosphorus, Total (P)	30D Qty	9.1	10.3989	5/1/2007
2PD00037*ID	May 2007	001	00665	Phosphorus, Total (P)	7D Conc	1.5	3.	5/8/2007
2PD00037*ID	May 2007	001	00665	Phosphorus, Total (P)	7D Qty	13.6	14.6252	5/8/2007
2PD00037*ID	May 2007	001	61941	pH, Maximum	1D Conc	9.0	9.1	5/10/2007
2PD00037*ID	May 2007	001	00665	Phosphorus, Total (P)	7D Conc	1.5	2.	5/15/2007
2PD00037*ID	June 2007	001	61426	Chronic Toxicity, Ceri	30D Conc	1.0	1.5	6/1/2007
2PD00037*JD	July 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	1.57857	7/1/2007
2PD00037*JD	July 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	2.23333	7/1/2007
2PD00037*JD	July 2007	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.225	7/1/2007
2PD00037*JD	August 2007	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.26667	8/1/2007
2PD00037*JD	September 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	2.50769	9/1/2007
2PD00037*JD	September 2007	001	31616	Fecal Coliform	7D Conc	2000	2102.83	9/8/2007
2PD00037*JD	September 2007	001	00300	Dissolved Oxygen	1D Conc	5.0	4.5	9/9/2007
2PD00037*JD	September 2007	001	31616	Fecal Coliform	7D Conc	2000	3686.11	9/15/2007
2PD00037*JD	September 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	6.23333	9/22/2007
2PD00037*JD	September 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	20	30.9678	9/22/2007
2PD00037*JD	September 2007	001	31616	Fecal Coliform	7D Conc	2000	3754.39	9/22/2007
2PD00037*JD	October 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	3.24286	10/1/2007
2PD00037*JD	October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	2.75	10/1/2007
2PD00037*JD	October 2007	001	31616	Fecal Coliform	7D Conc	2000	23986.4	10/1/2007
2PD00037*JD	October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	5.325	10/8/2007
2PD00037*JD	October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	4.23333	10/15/2007
2PD00037*JD	October 2007	001	31616	Fecal Coliform	7D Conc	2000	3536.79	10/15/2007
2PD00037*JD	November 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	6.0	7.49167	11/1/2007
2PD00037*JD	November 2007	001	00665	Phosphorus, Total (P)	30D Conc	1.0	2.96	11/1/2007
2PD00037*JD	November 2007	001	00665	Phosphorus, Total (P)	7D Conc	1.5	4.	11/1/2007
2PD00037*JD	November 2007	001	00665	Phosphorus, Total (P)	30D Qty	9.1	10.1648	11/1/2007
2PD00037*JD	November 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	9.0	11.7666	11/15/2007
2PD00037*JD	November 2007	001	00665	Phosphorus, Total (P)	7D Conc	1.5	3.8	11/15/2007
2PD00037*JD	November 2007	001	00665	Phosphorus, Total (P)	7D Conc	1.5	2.	11/22/2007