



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Rd.  
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468  
www.epa.ohio.gov

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

Re: Richland County  
City of Shelby  
NPDES Permit

December 15, 2009

Mr. Brad Harvey, Deputy Director of Public Service  
City of Shelby  
23 West Main Street  
Shelby, Ohio 44875

Dear Mr. Harvey:

On December 3, 2009, Walter Ariss conducted a compliance evaluation inspection of the City of Shelby's wastewater treatment plant (WWTP) located at 3626 London West Road, Shelby, Richland County. Mr. Charlie Brown, Superintendent, was present to provide information on plant operations. A copy of our completed inspection checklist is enclosed for your review.

At the time of the inspection all major treatment units were in operation. The raw bypass of the wastewater treatment plant was not active and all flow was receiving full treatment. The treatment plant was recovering from an excessive influent ammonia loading that caused adverse effects on the bacteria and caused the plant to violate the effluent ammonia limits. Mr. Brown and his staff were working diligently in order to aid the recovery of the plant biology. No other concerns with plant operations were noted.

A review of your discharge monitoring reports covering the months of July through October 2009, revealed no violations of the effluent limitations contained in your NPDES permit. We are pleased to see that the plant is continually meeting the discharge limits.

Your NPDES permit contains a compliance schedule to complete various projects. As of the date of this letter our office is still awaiting the submittal of Items D,1,c,(1, 4, and 6) listed in the I/I compliance schedule. We are also waiting on the development of the local limits document, event code 52599 for the pretreatment program. These items should be submitted as soon as possible.

Mr. Brad Harvey, Deputy Director of Public Service  
December 15, 2009  
Page 2

Please contact Walter Ariss at 419-373-3070 with any questions.

Yours truly,



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

/llr

Enclosure

pc: Charlie Brown, Shelby WWTP w/enclosure  
◀DSW-NWDO File ->



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
2PD00036	OH0023540	12/3/2008	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Shelby WWTP 3626 London West Road Shelby, OH 44875	1:15 PM	7/1/2008
	Exit Time	Permit Expiration Date
	4:30 PM	7/31/2012
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Charlie Brown, Superintendent	419-755-3413	
Name, Address and Title of Responsible Official	Phone Number	
Brad Harvey, Deputy Director of Public Service	419-755-3700	

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	M	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
 Date: 12/3/09 Walter Ariss Division of Surface Water Northwest District Office	 Date: 12/10/09 Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office

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

Comments/Status:

i) upstream taken at London West Road bridge, downstream taken at Plymouth-Springmill bridge

**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..... N

Comments/Status:

e) Still waiting on items D,c, 1, 4, and 6 of compliance schedule.

**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..... N
- (d) Wastewater Treatment Works classification (OAC 3745-7)..... II
- (e) Operator of Record holds unexpired license of class required by permit..... Y  
 Class: II
- (f) Copy of certificate of Operator of Record displayed on-site..... Y
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... N/A
- (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..... Y
- (l) Regulatory agency notified of bypasses..... Y  
 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)  

kept in binder
----------------
- (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: 0%
- (b) Any collection system overflows since last inspection..... N  
(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/A
- (h) Are lift stations equipped with permanent standby power  
or equivalent..... N/A
- (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..... N

**Comments/Status:**

Treatment Works c) only using one aeration tank  
e) Charlie now has Class III license  
l) used the bypass once, February 12 and 13, 2009

Collection System g,h) no lift stations in town, system is entirely gravity fed

**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date: 6/11/1986 Approval #: 03-223-PW Not submitted  N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y  
(Method: Land Application)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y  
(Name: Mid Ohio Management)
- (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..... Y
- (k) Is sludge adequately processed (digestion, pathogen control)..... Y

**Comments/Status:**

c) sludge does not need to be injected or incorporated if it meets the 38% volatile solids reduction  
j) talked to complaintant and the city agreed not to use that field anymore

**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: Venturi on influent pump station)
- (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..... N
- (f) Flow measuring equipment inspection frequency  
 Daily  Weekly  monthly  other

**Comments/Status:**

**Section II: 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. Y
  - (d) If (c) is yes, are results in permittee's self-monitoring report..... N
  - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab: Metals, Sludge, Nitrates, Phosphorous

Lab name: Ginosko

*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

Satisfactory  Marginal  Unsatisfactory

Date: 8/31/2009

**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:**