



1PB0003220100210

WARREN WAYNESVILLE WWTP

ZIMMERMAN, MICH 2010/02/10



State of Ohio Environmental Protection Agency

Southwest District Office

401 E. Fifth St.
Dayton, Ohio 45402

TELE: (937) 285-6357 FAX: (937) 285-6249
www.epa.state.oh.us

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

February 10, 2010

Bruce Snell, Village Manager
Village of Waynesville
1400 Lytle Road
Waynesville, Ohio 45068

**Re: Waynesville WWTP
NPDES Permit No. 1PB00032*ID; OH0020753
NPDES Compliance Inspection and Notice of Violation**

Dear Mr. Snell:

On January 20, 2010, I conducted an NPDES (National Pollutant Discharge Elimination System) permit compliance inspection at the above referenced facility. Angela Tipton, Utilities Manager, represented the Village during the inspection. The purpose of the inspection was to evaluate the operation of the wastewater treatment system and to determine compliance with the NPDES permit.

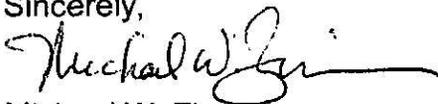
A copy of the inspection report is enclosed. All areas evaluated during the inspection received a satisfactory rating except for the Flow Measurement category (Section D of the attached report). Flow Measurement was rated 'marginal' because the final effluent flow meter had not been calibrated since February, 2008. We recommend flow meters be calibrated at least annually. Generally the operation and maintenance of the plant was acceptable. However, the sludge blanket in Clarifier No.1 appeared to be relatively high with a significant amount of suspended floc in the water above the blanket. These solids were overflowing the clarifier weirs and flowing to the chlorine contact tank.

Review of the monthly electronic Discharge Monitoring Reports submitted by the Village from January, 2008, through December, 2009 revealed three permit limit violations. Two were loading violations for NH₃-N (February/March, 2008) and one was a weekly loading violation for TSS. These are discussed in the report. The Village previously provided a written noncompliance notification for these violations, citing increased influent flow from rainfall as the cause. Ms. Tipton stated smoke testing of sewers would occur later this spring. Please provide this office a status report on the Village's efforts to identify and eliminate sources of inflow and infiltration to the collection system.

A brief review of the wastewater laboratory procedures was conducted as part of the plant inspection. A few observations and comments are included in the report. The next compliance inspection to be conducted at this facility will most likely include a more in depth examination of the laboratory than has been done previously. The intent is to assist the City in being able to document that the data produced by the laboratory is "true and accurate" and is therefore defensible. The emphasis will be on the SOPs and Quality Assurance measures required by 40 CFR 136. A copy of the draft checklist we propose to use is included for your information.

If you have any questions, don't hesitate to contact me at (937) 285-6102.

Sincerely,



Michael W. Zimmerman
Permits Group
Division of Surface Water

Copy: Angela Tipton, Village of Waynesville, w/ enclosure



State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00032*ID	OH0020753	1/20/2010	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Waynesville WWTP 444 U.S. Route 42 Waynesville, Ohio Mailing: 1400 Lytle Road Waynesville, Ohio 45068	10:30 am	1/1/2010
	Exit Time	Permit Expiration Date
	12:30 pm	1/31/2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Angela Tipton, Utilities Manager (Class III)	(513) 897-3200	
Name, Address and Title of Responsible Official	Phone Number	
Bruce Snell, Village Manager	(513) 897-8015	

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

Section D: Summary of Findings (Attach additional sheets if necessary)	
<p>The NH3-N and TSS loading violations in February/March and June, 2008 were caused by high influent flows during rainfall events. Inflow into the sanitary sewer system (ie. from home sump pumps, downspouts) is a significant problem. The Village is scheduled to conduct smoke testing in the system in the Spring, 2010.</p> <p>Considerable amount of floating particulate material (floc) was observed in the clarifiers, especially clarifier No. 1.</p> <p>Effluent flow meter should be calibrated at least once/year (last done in February, 2008).</p>	
Inspector	Reviewer
 Michael W. Zimmerman Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
2-10-2010 Date	2/10/2010 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..... N/A
- (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 E: Permit Verification

- (a) Any significant violations since the last inspection..... Y
- (b) Permittee is taking actions to resolve violations..... Y
- (c) Permittee has a compliance schedule..... Y
- (d) Compliance schedule contained in NPDES permit – Phosphorus Schedule
- (e) Permittee is meeting compliance schedule..... Y

Comments/Status:

The NH3-N and TSS loading violations in February/March and June, 2008 were caused by high influent flows during rainfall events. Inflow into the sanitary sewer system (ie. from home sump pumps, downspouts) is a significant problem. The Village is scheduled to conduct smoke testing in the system in the Spring, 2010.

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)..... II
- (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
- (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 log 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)... 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..... N/A

Section G: Operation & Maintenance (con't)

Collection System:

- (a) Percent combined system: 0%
- (b) Any collection system overflows since last inspection..... Y
(CSO and/or SSO) in 2008
- (c) Regulatory agency notified of overflows (SSOs)..... Y
- (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..... Y
- (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..... 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:

Operators: Angela Tipton - Class III; Doug Furnas - Class II

Two clarifiers in service: 1) significant floc in Clarifier No. 1; 2) clarifier weirs are hosed down in the winter; during summer low flow periods, the clarifiers are taken off line (one at a time) and the weirs are bleached

Two Schreiber units - c

Record Keeping:

The facility also maintains copies of employee time cards.

Collection System:

There are two lift stations in the collection system; one is located at the end of Edwards Road and services 8 houses, the second services the Der Dutchman Restaurant complex (and Der Dutchman is responsible for its maintenance).

The Village has a contract with Flygt USA to provide portable pumps and generators if needed

The Edwards Road lift station is inspected daily.

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. 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, low level Hg, nitrite + nitrate, cyanide, hex. Cr, sludge*

Lab name: *MASI (Brookside does the sludge analysis)*

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 **NA**

Comments/Status:

All permit-required parameters not analyzed by the contract lab are done at the Waynesville WWTP lab. These include pH, temperature, D.O., TSS, NH₃-N, CBOD₅, T-P, fecal coliform, and TRC. A brief laboratory inspection was conducted as part of the plant inspection. Lab observations included: 1) the drying oven temperature was 104°C; and 2) the incubator temperature was at 20.0°C The metric balance and the incubator were last calibrated in February, 2009 (they are scheduled to be calibrated in February, 2010).

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*)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y
(Name: *Mike Farm Enterprises*)
- (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:

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: *at end of the chlorine contact tank*)
- (b) Calibration frequency adequate N
(Date of last calibration: *February, 2008*)
- (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:

The final effluent flow volume at 12:15 pm was 419.9 gpm (0.6 MGD).

Section J: Effluent/Receiving Water Observations

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

Comments/Status:

Concrete headwall – final outfall to LMR

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:

Permit #: 1PB00032*1D
NPDES #: OH0020753

Waynesville WWTP
FINAL EFFLUENT LIMIT VIOLATIONS
(Period of Review: January, 2008 thru December, 2009)

7D = Weekly 30D = Monthly 1D = Daily Conc. = Concentration (mg/l) Qty. = Quantity (Kg/Day)

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2008	001	Nitrogen, Ammonia (NH3-N)	30D Qty	7	7.06527	2/1/2008
March 2008	001	Nitrogen, Ammonia (NH3-N)	30D Qty	7	9.06296	3/1/2008
March 2008	001	Nitrogen, Ammonia (NH3-N)	7D Qty	13.4	15.8696	3/1/2008
June 2008	001	Total Suspended Solids	7D Qty	81	88.9020	6/1/2008