



State of Ohio Environmental Protection Agency

Northwest District Office

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Bowling Green, OH 43402-9398

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

Re: Allen County
Beaverdam WWTP
NPDES Permit

July 11, 2008

Mayor and Council
Village of Beaverdam
101 W. Main Street
Beaverdam, Ohio 45808

Dear Mayor and Council:

On July 1, 2008, a National Pollutant Discharge Elimination System (NPDES) permit compliance inspection was conducted at the Beaverdam wastewater treatment plant. Mr. Mike Leis was present and provided information on operation and maintenance of the plant.

During our visit, all five lagoon cells were in use. The wastewater in the first cell was dark green in color. The water in the remaining four cells was green in color. There was no discharge during the inspection.

Several NPDES permit violations were reported during the April 2008 discharge. Mr. Leis indicated that the Village is considering addition of aluminum sulfate to the lagoons to enhance treatment and prevent future violations. It is likely that addition of aluminum sulfate would reduce solids and algae in the effluent. However, this chemical addition would also result in significant increases in sludge accumulations in the bottom of the lagoons. If the Village plans to utilize this treatment strategy, you should also develop a plan to remove sludge from the lagoons on a regular basis.

As indicated in our June 16, 2006, and July 6, 2007 inspection letters, our review of your discharge monitoring reports (DMRs) indicates that metals results continue to be reported at their detection levels. When analysis for a substance is done according to an approved analytical method and does not detect the substance or detects the substance at a level below (<) the minimum detection level, the "AA" code must be reported in the appropriate column on the DMR. The detection level should then be reported in the additional comments section of the DMR.

Operation and maintenance at the plant were satisfactory. A copy of our completed inspection report is enclosed for your records. If you have any questions, please call Tom Poffenbarger at (419)373-3008.

Yours truly,

Allen L. Rupp, P.E.
District Engineer/Section Manager
Division of Surface Water

Enclosure
TP/lb

pc: ~~DSW-NWDO~~.File w/enclosure

Permit #: 2PB00018
 NPDES #: OH0021318



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
2PB00018	OH0021318	7/1/2008	C	S	11

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Beaverdam Wastewater Treatment Plant North side of Dixie Highway Beaverdam, Allen County	11:25 AM	10/1/2006
	Exit Time	Permit Expiration Date
	12:10 PM	9/30/2011
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mr. Mike Leis, Village Administrator	419-234-6472	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council Village of Beaverdam 101 W. Main Street Beaverdam, Ohio 45808	419-643-4231	

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

Section D: Summary of Findings (Attach additional sheets if necessary)	
<p>No discharge during inspection.</p> <p>CBOD, pH and TSS violations reported during April 2008 discharge.</p> <p>Village is considering addition of aluminum sulfate to enhance treatment.</p> <p>When analysis for a substance is done according to an approved analytical method and does not detect the substance or detects the substance at a level below (<) the minimum detection level, the "AA" code must be reported.</p>	
Inspector	Reviewer
 Thomas Poffenbarger, P.E. District Engineer Division of Surface Water Northwest District Office	 Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office
Date 7/3/08	Date 7/3/08

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) CBOD, pH & TSS - April 2008

(b) The Village is considering the addition of aluminum sulfate to enhance treatment.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator or dual feed N
- (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)..... I
- (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..... N/E
- (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..... 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)

Hard bound 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)... N
 - 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: %
- (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..... 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:

- (h) Village is working on a grant for generators to power lift stations.
- (k) Not during dry weather.

Section H: Sludge Management

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

Comments/Status:

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary flow measuring device operated and maintained..... N/A
Type of device: Ultrasonic & Parshall flume Ultrasonic & Weir Weir
Calculated from influent Other (Specify: estimate)
- (b) Calibration frequency adequate N/A
(Date of last calibration: _____)
- (c) Secondary instruments operated and maintained..... N/A
- (d) Flow measurement equipment adequate to handle full range
of flows..... N/A
- (e) Actual flow discharged is measured..... N/A
- (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..... N
 - (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
 - (c) Analyses being performed more frequently than required by permit. N
 - (d) If (c) is yes, are results in permittee's self-monitoring report..... Y
 - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab: CBOD & TSS, all discharge parameters.

Lab name: Masi, 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:

Comments/Status:

Section J: Effluent/Receiving Water Observations

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

Comments/Status:

No discharge during inspection

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		
	Potable Water Supply Protection		
	Safety Features	S	Fence surrounding WWTP
	Bypasses		
	Storm Water Overflows		
	Alternate Power Source		
Preliminary	Maintenance of Collection Systems		
	Pump Station	IN	Influent pump station
	Ventilation		
	Bar Screen		
	Disposal of Screenings		
	Comminutor		
	Grit Chamber		
	Disposal of Grit		
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Belt Filter Press		
	Centrifuge		
Disposal of Sludge			
Other	Flow Meter and Recorder		
	Records		
	Lab Controls		
	Chemical Treatment		
Secondary - Tertiary	Cell 1	IN	Dark green color, aerated
	Cell 2	IN	Green color
	Cell 3	IN	Green color
	Cell 4	IN	Green color
	Cell 5	IN	Green color
Disinfection	Effluent	OUT	No discharge
	Disinfection System		
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		