



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

Re: **Notice of Violation**
Fulton County
Village of Archbold
NPDES Permit

April 9, 2013

Mr. Frank D'Ambrosia
Superintendent
Village of Archbold
P.O. Box 406
Archbold, Ohio 43502

Dear Mr. D'Ambrosia:

On March 21, 2013, I conducted a compliance inspection of the Archbold Wastewater Treatment Plant (WWTP). You and Mr. Mike Short were present and provided information concerning the operation and maintenance of the treatment facilities. The discharge to Brush Creek was clear and colorless with no noticeable odor.

A review of the Discharge Monitoring Reports (DMRs) from March 2012 to March 2013 shows that there have been several permit limit violations at the facility. The specific instances of non-compliance are enclosed on a separate sheet.

It was noted that the recent total suspended solids violations in February 2013 were believed to be from an increase in loading and flows to the plant. You indicated that a letter will be submitted with the reasons for the violations and corrective actions once the results have been further evaluated.

Our completed compliance inspection report is enclosed. If there are any questions, please contact me at (419) 373-3053.

Sincerely,

Ryan Gierhart
Division of Surface Water

/jlm
Enclosures
pc: Mayor and Council
ec: Tracking

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00017*KD	March 2012	002	00530	Total Suspended Solids	7D Qty	350	413.423	3/8/2012
2PD00017*KD	May 2012	002	31648	E. coli	7D Conc	362	457.911	5/8/2012
2PD00017*KD	July 2012	002	31648	E. coli	30D Conc	161	180.604	7/1/2012
2PD00017*KD	September 2012	002	50060	Chlorine, Total Residu	1D Conc	0.02	.52	9/9/2012
2PD00017*KD	October 2012	002	00300	Dissolved Oxygen	1D Conc	5.3	4.7	10/31/2012
2PD00017*KD	November 2012	002	00530	Total Suspended Solids	7D Conc	36.9	43.3333	11/8/2012
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	30D Conc	24.6	37.5714	2/1/2013
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	30D Qty	233	359.173	2/1/2013
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	7D Conc	36.9	54.6666	2/8/2013
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	7D Qty	350	448.911	2/8/2013
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	7D Conc	36.9	42.	2/22/2013
2PD00017*KD	February 2013	002	00530	Total Suspended Solids	7D Qty	350	489.690	2/22/2013

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	Air gap.
	Safety Features	S	Fencing and rails.
	Bypasses	NA	
	Stormwater Overflows	NE	
	Alternate Power Source	S	Dual feed. Generator for main lift pump from wet well
Preliminary	Maintenance of Collection Systems	NE	
	Pump Station	NA	
	Ventilation	NA	
	Bar Screen	IN	Fine screen. On timer. Also turn on as flows increases.
	Disposal of Screenings	S	Landfill.
	Grit Chamber	IN	Aerated. Lime added on continuous feed.
	Disposal of Grit	S	Landfill.
	Grease Removal Tank	IN	Used when needed. Grease hauled offsite.
	Pumps	IN	One on, three standby.
Primary	Settling Tanks	IN	Four tanks. 3 Tanks online. Some floating scum.
	Scum Removal	IN	
	Sludge Removal	IN	
	Effluent	S	Turbid.
Sludge Disposal	Digesters	IN	Two primary digesters
	Temperature and pH	NE	
	Gas Production	IN	Sent to waste burner. Runs boiler for heating sludge.
	Heating Equipment	NE	Mixing - two feed pumps
	Sludge Pumps	IN	2 Recirculating, 2 mixing, 2 feed, two WAS, 3 RAS, and 1 lagoon.
	Storage Lagoons	IN	Five lagoons. Supernatant sent to plant. 2.0 MGD total capacity.
	Gravity Belt Thickener	IN	On standby. Used when making sludge as needed.
	Disposal of Sludge	S	Land application.
Other	Holding Tank/Thickener	IN	On standby. Used as needed.
	Flow Meter and Recorder	IN	Parshall flume and ultrasonic
	Records	S	
	Lab Controls	S	
	Chemical Treatment	S	Lime, ferrous chloride, and polymer.
Secondary-Tertiary List items as required	EQ Basin	In	Fine bubble system.
	Contact Stabilization Tanks	IN	7 tanks. Aerated by fine bubbles. Brown color with white foam. 4 tanks contact stabilization. 3 tanks flow through.
	Final Settling	IN	Two tanks. Clear effluent.
	Blowers	IN	One in service, three on standby.
Disinfection			
	Effluent	S	Clear, colorless, no odor.
	Disinfection System	Out	Chlorine gas.
	Effective Dosage	NE	
	Contact Time	NE	
	Contact Tank	IN	Serpentine tank
	Dechlorination	Out	Sodium bisulfite
Post Aeration	IN	Step aeration at final outfall and post aeration in disinfection contact tank.	



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
2PD00017	OH0020796	3/21/2012	C	S	1

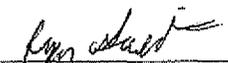
Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Archbold WWTP 515 Short Buehrer Archbold, OH 43502	9:00 am	March 1, 2009
	Exit Time 11:30 am	Permit Expiration Date July 31, 2013
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mr. Frank D'Ambrosia - WWTP Superintendent Mr. Mike Short - WWTP Asst. Superintendent	(419) 445-6401	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council Village of Archbold P.O. Box 406 Archbold, OH 43502	(419) 445-4726	

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	S	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
S	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

Eq basin fine bubble air system has been installed.

Facility has had recent TSS violations believed to be from increase flow and loadings.

Inspector	Reviewer
 Ryan Gierhart Environmental Specialist II Division of Surface Water Northwest District Office	 Thomas Poffenbarger, P.E. Water Quality Engineer II/Unit Supervisor Division of Surface Water Northwest District Office
4/8/13 Date	4/8/13 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) Flows and loadings conform with NPDES permit..... Y
- (c) Treatment processes are as described in permit application... Y
- (d) All discharges are permitted..... Y
- (e) Number and location of discharge points are as described
in permit..... Y
- (f) Storm water discharges properly permitted..... N

Comments/Status:

A notice of termination (NOT) was submitted for general storm water permit. Facility is going to look at applying for no exposure certification.

Section F: Compliance

- (a) Any significant violations since the last inspection..... N
- (b) Appropriate Non-compliance notification of violations..... N/A
- (c) Permittee is taking actions to resolve violations..... N/A
- (d) Permittee has a compliance schedule..... Y
- (e) Compliance schedule contained in...NPDES permit
- (f) Permittee is in compliance with schedule..... Y
- (g) Has biomonitoring shown toxicity in discharge since last inspection N

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator or dual feed Y
 - i. What does the back-up power source operate.....

Dual feed to plant, portable generator can run influent pumps
rest of the plant is gravity flow.

ii. How often is the generator tested under load.....
 Monthly

(b) Which components have an alarm system available for power or equipment failures.....

All major treatment components have alarms. Auto dialer and tied into computer system.

- (c) All treatment units in service other than backup units..... Y
- (d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.)..... Y
Computer Program
- (e) Any major equipment breakdown since last inspection..... N
- (f) Operation and maintenance manual provided and maintained..... N
- (g) Any plant bypasses since last inspection..... N
- (h) Any plant upsets since last inspection..... N

Section G: Operation & Maintenance cont

Record Keeping/Operator of Record:

- (a) Wastewater Treatment Works classification (OAC 3745-7)..... III
- (b) Operator of Record holds unexpired license of class required by Permit..... Y
- (c) Copy of certificate of Operator of Record displayed on-site..... Y
- (d) Has the Operator of Record submitted an ORC Notification form.. Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7.... Y
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met..... N/A
- (g) Operator of Record log book provided..... Y
- (h) Format of log book (e.g. computer log, hard bound book)

Hardbound books. Time sheets kept for employees. Separate Maintenance log book kept.

- (i) Log book kept onsite (in an area protected from weather)..... Y
- (j) 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 operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)..... Y
 - iv. Laboratory results (unless documented on bench sheets)... N/A

- v. Identification of person making entries..... Y
- (k) Has the Operator of Record submitted written notifications 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

Comments/Status:

Log book: Timesheets are used to keep track of arrival and departure time at plant. Plant has daily and weekly check lists and a maintenance log book for maintenance and repairs. Lab results kept on bench sheets.

Section G: Operation & Maintenance con't

Collection System:

- (a) Are there pump stations in the collection system..... Y
 - i. How many publicly-owned pump stations equipped with permanent standby power or equivalent.....0
 - ii. How many pump stations have telemetered alarms.....7
 - iii. How many pump stations have operable alarms.....7
- (b) Any chronic collection system overflows since last inspection..... N
- (c) Regulatory agency notified of all overflows..... N/A
- (d) CSOs in the collection system....if so, what is the LCTP status..... N
- (e) How are CSOs monitored (chalk, block, level sensor, etc.)..... N/A
- (f) Portable pumps available for collection system maintenance..... Y
- (g) RDII Program established and active..... N
- (h) Any WIB complaint received since last inspection..... N
- (i) Is there a WIB response plan..... Y
- (j) Is any portion of the collection system at or near dry weather Capacity..... N

Comments/Status:

Follow up on complaints of WIB. Village checks manholes for leaks during rain events. Cameras sewers and does smoke and dye testing as needed.

Section H: Sludge Management

- (a) Method of Sludge Disposal...
 - Land Application
 - Haul to Another NPDES Permittee

Haul to a Mixed Solid Waste Landfill

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options									
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 – Aerobic Bench Scale Analysis	Option 4 – Specific Oxygen Uptake Rate	Option 5 – Aerobic Time and Temperature	Option 6 – Alkali Addition	Option 7 – >75% Percent Solids without Unstabilized	Option 8 - >75% Percent Solids with Unstabilized	Option 9 – Land Injection	Option 10 – Immediate Incorporation
Alternative 1 - Geometric Mean of Seven Fecal Samples (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Aerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Air Drying (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Anaerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 – Composting (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Lime Treatment (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 – Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*if one of the selected methods is land application, complete applicable charts.

- (b) Has amount of sludge generated changed significantly since the last inspection..... N
- (c) How much sludge storage is provided at the plant.....

Over 120 days
- (d) Records kept in accordance with State and Federal law (5 years according to OAC 3745-40-06)..... Y
- (e) Any complaints received in last year regarding sludge..... N
- (f) 5/8" screen at headworks for facilities that land apply sludge..... Y
- (g) Are sludge application sites inspected to verify compliance with NPDES permit..... Y

Comments/Status:

Sludge Disposal Contracted by Stuckey Brothers.

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary/Secondary flow measuring devices (e.g. weir with ultrasonic level sensor):

Parshall flume with ultrasonic level

- (b) Flow meter calibrated annually Y
(Date of last calibration: 10-12)
- (c) 24-hour recording instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range of flows..... Y
- (e) All discharged flow is measured..... Y

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
(see GLC page)
- (d) 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

Section I: Self-Monitoring Program (con't)

Laboratory:

General

- (a) Does the Quality Assurance Manual contain written Standard Operating Procedures (SOP's) for all analysis performed onsite..... Y
- (b) Do SOP's include the following if applicable:
 - Title
 - Scope and Application
 - Summary
 - Sample Handling and Preservation
 - Interferences
 - Apparatus and Materials
 - Reagents
 - Procedure
 - Calculations
 - Quality Control
 - Maintenance
 - Corrective Action
 - Reference (Parent Method)

Note: Standard Methods 1020A establishes that "Quality assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of known precision and accuracy. "Standard operating procedures are to be used in the laboratory in sufficient detail that a competent analyst unfamiliar with the method can conduct a reliable review and/or obtain acceptable results." SOPs should be developed for each analytical procedure.

- (c) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (d) If alternate analytical procedures are used, proper approval has been obtained..... N
- (e) Analyses being performed more frequently than required by permit. Y
- (f) If (e) is yes, are results in permittee's self-monitoring report..... Y
- (g) Satisfactory calibration and maintenance of instruments/equipment. Y (see score from GLC page)
- (h) Commercial laboratory used..... Y
Parameters analyzed by commercial lab: Metals, Priority pollutants and Toxicity

Lab name: Jones and Henry, Alloway

Discharge Monitoring Report Quality Assurance (DMRQA)

- (a) Participation in latest USEPA quality assurance performance sampling..... Y
Date: 4/2012
- (b) Were any parameters "Unsatisfactory" Y
- (c) Reasons for "Unsatisfactory" parameters.....

pH was unsatisfactory. The pH probe was replaced and follow up test was satisfactory.

Comments/Status:

Water treatment plant lab does Quanti tray Ecoli sampling for the facility. CBOD test was evaluated during the inspection. It was recommended that the equation for CBOD be placed in SOP

Section J: Effluent/Receiving Water Observations

Outfall # 2PD00016001

Outfall Description: Outfall observed was clear, colorless with no noticeable odor

Receiving Stream: Brush Creek

Receiving Stream Description: Stream appeared clear with steady flow.

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