



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Smith A. Neely, Director

April 17, 2013

Jane Taylor, Mayor  
Chesterville WWTP  
P O Box 67  
Chesterville, OH 43317

**Re: Chesterville WWTP  
NPDES Permit 4PA00103/ OH0124478  
Compliance Evaluation Inspection  
Morrow County**

Dear Ms. Taylor:

On April 8, 2013, a Compliance Evaluation Inspection was conducted at the Chesterville WWTP. Present for the inspection were Lonnie McGhee contract wastewater treatment plant operator from McGhee's Technical Services representing the Village of Chesterville and myself of the Ohio EPA, Central District Office, Division of Surface Water.

The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant. The inspection raised a number of concerns which must be addressed in the following areas:

**Significant Non-Compliance** - This facility was previously in Significant Non- Compliance (SNC) due to the frequency and magnitude of effluent violations for E. coli. The contract operator attributed the violations to algal growth on the UV bulbs and have proposed more frequent cleaning of the bulbs to preclude additional violations.

**Outfall Signage** - A sign is required that identifies the location of the permitted outfall to the Kokosing River. Please have this sign posted within the next 30 days and submit a photograph of the sign to this office following installation.

Jane Taylor, Mayor  
Chesterville WWTP  
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If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3848 or e-mail at [mike.sapp@epa.state.oh.us](mailto:mike.sapp@epa.state.oh.us).

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Sapp", written in a cursive style.

Michael Sapp  
Compliance and Enforcement Unit  
Division of Surface Water  
Central District Office

c: Lonnie McGhee, McGhees's Technical Services, w/enclosures

ec: Michael Sapp

MS/nsm Chesterville WWTP 4-13

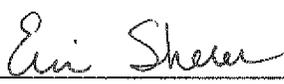
NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PA00103	OH0124478	CFI	S	Public
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
4/8/2013	9:30 AM	11:15 AM	No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Chesterville WWTP SR 314 ¼ mile south of SR 95 Chesterville.43317 Ohio	4/1/2012
	Permit Expiration Date
	3/31/2017
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Lonnie McGhee, Contract Operator	(419) 886-4716
Name and Title of Responsible Official	Phone Number
Jane Taylor, Mayor	(419) 768-3447

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
M	NPDES Compliance	No signage at outfall
S	Operations & Maintenance	
S	Facility Site Review	
S	Collection System	
S	Flow Measurement	
M	Receiving Waters	Previously in SNC for E. coli violations
S	Laboratory	

Comments:

Signatures	
 4/12/13	 4/15/13
Michael Sapp, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office

**SECTION D: PERMIT VERIFICATION**

- (a) Correct name and mailing address of permittee ..... Y
- (b) Correct name and location of receiving waters ..... Y
- (c) Products and production rates conform with permit application ..... Y
- (d) Flows and loadings conform with NPDES permit ..... Y\*
- (e) Treatment processes are as described in permit application ..... Y
- (f) New treatment process added since last inspection ..... N
- (g) Notification given to State of new, different or increased discharges ..... NA
- (h) All discharges are permitted ..... Y
- (i) Number and location of discharge points are as described in permit ..... Y

Comments:

**SECTION E: COMPLIANCE**

- (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) Permittee is meeting compliance schedule ..... NA

Comments:

**SECTION F: OPERATION AND MAINTENANCE**

- (a) Standby power available ..... N\*  
If yes, what type?
- (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 ..... I
- (e) Operator of Record holds unexpired license of class required by Permit ..  
Class held: III
- (f) Copy of certificate of Operator of Record displayed on-site ..... NA
- (g) Minimum operator staffing requirements fulfilled ..... Y\*
- (h) Routine and preventative maintenance scheduled and performed ..... Y
- (i) Any major equipment breakdown since last inspection ..... N\*
- (j) Operation and maintenance manual provided and maintained ..... N
- (k) Any plant bypasses since last inspection ..... N
- (l) Regulatory agency notified of bypasses ..... NA  
By MOR  and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic or organic overloads since last inspection ..... N

Comments:

**SECTION G: 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) ..... Y
  - v) Identification of person making log entries ..... Y
- e) Has the Operator of Record submitted written notification to the permittee, Ohio EPA and any applicable local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred?... Y

Comments:

**SECTION H: COLLECTION SYSTEM**

- a) Percent combined system: ..... 0%
- b) Any collection system overflows since last inspection ..... N  
    CSO     SSO
- c) Regulatory agency notified of overflows ..... NA
- d) CSO O&M plan provided and implemented..... NA
- e) CSOs monitored and reported in accordance with permit ..... NA
- f) Portable pumps are used to relieve system..... N
- g) Lift station alarms provided and maintained ..... Y\*
- h) 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..... 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
- l) Are operations changed during high-flow events?..... N

Comments:

**SECTION I: SLUDGE MANAGEMENT**

- a) Sludge management plan (SMP) last audited by Ohio EPA:  
Audit Date:
- b) Sludge adequately disposed ..... Y\*  
Method: hauling to another POTW
- c) If sludge is incinerated, where is ash disposed of ..... N
- d) Is sludge disposal contracted ..... Y  
Name: Agrisludge
- e) Has amount of sludge generated changed significantly ..... N
- f) Adequate sludge storage provided at plant ..... Y
- g) Records kept in accordance with State and Federal law ..... Y
- h) Any complaints received last year regarding sludge ..... N
- i) Is sludge adequately processed (digestion, pathogen control)..... Y

Comments:

**SECTION J: SELF-MONITORING PROGRAM**

- a) Primary flow measuring device operated and maintained ..... Y\*  
Type of device: ultrasonic/weir      Device location: effluent weir
- b) Calibration frequency adequate..... Y\*  
Date of last calibration: monthly internal calibrations
- c) Secondary instruments operated and maintained ..... Y
- d) Flow measurements equipment adequate to handle full range of flows .... Y
- e) Actual flow discharged is measured ..... Y
- f) Flow measuring equipment inspection frequency 3 times/week
- g) Sampling location(s) are as specified by permit ..... Y\*
- h) Parameters and sampling frequency agree with permit.....
- i) 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

Comments:

**SECTION K: Laboratory**

- a) EPA applicable analytical testing procedures used (40 CFR 136.3) ..... Y\*
- b) If alternate procedures are used, are they properly approved? ..... NA
- c) Analysis performed more frequency ..... N  
     If yes, are results recorded in permittee's report? .....
- d) Commercial laboratory used:  
     Name: MASI  
     Parameters analyzed: all permitted parameters except pH and DO
- e) Quality assurance manual provided and maintained ..... Y
- f) Calibration and maintenance of instruments is satisfactory? ..... Y
- g) Results of last U.S. EPA quality assurance ..... NA  
     Date:

Comments:

**SECTION L: EFFLUENT/RECEIVING WATER OBSERVATIONS**

Outfall Number	Outfall sign in place	Oil Sheen	Grease	Turbidity	Foam	Solids	Color	Other
001	NO*	NO	NO	NO	NO	NO	Clear	

Comments:

**SECTION M: 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:

## Compliance Data for Chesterville WWTP between 7/1/2010 to 3/1/2013

### Summary

Permit Effluent Limit Violations: 16  
 Permit Effluent Code Violations: 0  
 Permit Effluent Frequency Violations: 0  
 Compliance Schedule Violations: 0

Limit Violations						
Month	Division	Parameter	Limit Type	Limit	Value	Date
March 2011	001	Total Suspended Solids	30D Conc	12	17.	3/1/2011
March 2011	001	Total Suspended Solids	7D Conc	18	55.	3/22/2011
March 2011	001	CBOD 5 day	7D Conc	15	17.	3/22/2011
April 2011	001	Total Suspended Solids	30D Conc	12	35.25	4/1/2011
April 2011	001	Total Suspended Solids	7D Conc	18	20.	4/1/2011
April 2011	001	Total Suspended Solids	7D Conc	18	106.	4/15/2011
April 2011	001	Total Suspended Solids	7D Qty	6.5	8.0242	4/15/2011
April 2011	001	CBOD 5 day	7D Conc	15	31.	4/15/2011
February 2012	001	Total Suspended Solids	30D Conc	12	13.5	2/1/2012
February 2012	001	Total Suspended Solids	7D Conc	18	20.5	2/1/2012
May 2012	001	Total Suspended Solids	7D Conc	18	19.	5/15/2012
July 2012	001	E. coli	30D Conc	126	150.	7/1/2012
September 2012	001	E. coli	30D Conc	126	400.	9/1/2012
September 2012	001	E. coli	7D Conc	284	400.	9/1/2012
October 2012	001	E. coli	30D Conc	126	316.227	10/1/2012
October 2012	001	E. coli	7D Conc	284	400.	10/22/2012

### Flow Data for Chesterville WWTP between 7/1/2010 and 3/1/2013

	Date	Flows (MGD)
Ten Highest Flows	8/1/2011	0.052
	8/2/2011	0.051
	7/29/2011	0.042
	7/30/2011	0.042
	7/31/2011	0.041
	5/1/2012	0.039
	7/1/2010	0.037
	9/6/2011	0.036
	2/25/2011	0.035
	2/26/2011	0.035
<b>Average Flow Rate</b>		0.017

**ADDITIONAL INFORMATION**  
**Chesterville Wastewater Treatment Plant**  
**4PA00103 – OH0124478**

**General**

The Chesterville Wastewater Treatment Plant has a design treatment capacity of 95,000 gpd with a direct discharge to the Kokosing River. Wet stream processes provided at the facility include a mechanically cleaned influent screen, followed by single stage activated sludge (Biolac system), final settling, ultraviolet disinfection and post aeration. Solids handling consists of aerobic digestion, thickening and hauling to another POTW

**Section D. - Permit Verification**

- (d.) The average daily flow at outfall 001, for the time period between July 2010 – February 2013, was approximately 17,000 gpd. The peak daily flow during this period was 52,000 gpd on August 1, 2011.

**Section E. - Compliance**

- (a.) E.coli violations in July, September and October 2012 resulted in the placement of this facility on the Significant Non-compliance list.
- (b.) The plant operators attributed the E.coli violations to algae growth on the UV bulbs.

**Section F. - Operation and Maintenance**

- (a.) The plant is not equipped with back-up power; however, the Village is still planning for the installation of a small back-up generator in the near future.
- (b.) The plant has an autodialer that will call in the event of power failure.
- (c.) At the time of the inspection, the following equipment was off-line due to low flows:
- one Biolac tank
  - one final clarifier
- (g.) Plant visits are made Monday, Wednesday and Friday. Wes Craft is generally at the plant twice a week and Luke McGhee is present one day/week.
- (i.) The cable and pulley assemblies on the clarifier scrapers continue to be problematic. The contract operator now reinstalls or splices in new cables when they break.

### **Section H. Collection System**

- (g.) There are 2 lift stations in the collection system served by the Chesterville plant. Both of the lift stations are equipped with audible/visual alarms and autodialers.
- (h.) Neither of the two lift stations is equipped with permanent back-up power. Portable generators are available for use from nearby municipalities available in the event of an emergency of an extended power outage

### **Section J. - Sludge Management**

- (b.) The amount of sewage sludge generated at the plant has not changed since the previous inspection in 2010. Liquid sludge is now being hauled to the Holmesville WWTP. Alum is added prior to thickening to increase the solids content to 2.0-2.5%. Screenings are placed in a dumpster and taken to a landfill.

### **Section J. - Self Monitoring Program**

- (a.) Effluent flows are measured with an ultrasonic unit and v-notch weir. Periodic p stick measurements on the v-notch weir are used for internal calibration purposes.
- (b.) Monthly internal calibrations of the effluent flow meter are performed using a depth measurement on the weir and a calibrated chart for the weir. These readings are generally within 3% of the flow meter readings.
- (g.) The effluent sampler collects flow-weighted composite samples.

### **Section K. - Laboratory**

- (a.) The contract operators perform analyses for dissolved oxygen and pH. Calibration was satisfactory for both the pH and dissolved oxygen meters.

### **Section L. Effluent/Receiving Water Observations**

Part II. Q. of your effective NPDES permit requires a sign that identifies the location of the permitted outfall to the Kokosing River. The installation of outfall signage was required on or before August 1, 2012 (see page 11 of your effective permit). Please have this sign posted within the next 30 days. The sign must comply with the following requirements:

- The marker shall consist, at a minimum, of the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall

number and a contact telephone number. The information shall be printed in letters not less than two inches in height.

- The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign. Vegetation shall be periodically removed to keep the sign visible.