Ohio EPA
40 years and moving forward

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

September 4, 2013

Mayor Tony Spires
Village of Pitsburg
P.O. Box 247
Pitsburg, OH 45358

RE: Village of Pitsburg Wastewater Treatment Works (1PA00030*AD)
Compliance Evaluation Inspection Report

Dear Mayor Spires:

On August 26, 2013, I conducted a Compliance Evaluation Inspection at the Village's Wastewater Treatment Works located at 200 Railroad Street in Pitsburg. Mr. Jeremy Bowser accompanied me during this inspection of the facility. A compliance review of submitted permit data revealed no violations for the period of August 2012 through August 2013. The areas rated received a satisfactory rating with the exception of the laboratory.

The laboratory received a marginal rating due to a lack of calibration of the present thermometers to a NIST (National Institute of Standards and Technology) traceable thermometer. Also, the composite sampler used for effluent monitoring requires a NIST calibrated thermometer. No other areas of concern were discovered regarding the laboratory.

During this inspection, Mr. Bowser relayed to me that the Village is conducting a collection system study via a consultant. Some of the findings are sags in various segments of the gravity collection system, as well as, water infiltration at sewer pipe joints and pipe to manhole connections. Upon completion of this collection system study and acceptance by the Village, it is requested that a copy of the resultant report be forwarded to my attention at the Southwest District of Ohio EPA.

The overall findings of this inspection resulted in a Satisfactory rating for the facility. The only issue found was that of thermometer calibration to a NIST traceable thermometer and a lack of thermometer in the composite sampler. The treatment work's thermometers must be calibrated with the mentioned type thermometer. Also, a properly calibrated thermometer is required to be installed in the effluent composite sampler. It is expected that these two items be completed within 30 days of the date of this letter. Once complete, it is asked that a written response be sent to me notifying that these items are complete. This response may be via email.

I ask that if you should have any questions or comments that you please feel free to write me at glen.vonderembse@epa.ohio.gov or call me at (937) 285-6033.

Sincerely,

Glen Vonderembse, PE
Environmental Engineer 2
Division of Surface Water

GV/kb

Enclosure: NPDES Compliance Evaluation Inspection (CEI) Report

ec: Jeremy Bowser, Operator of Record (w/ Report)

OhioEPA

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**
OH0140970	1PA00030*AD	8/26/2013	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	**Entry Time**	**Permit Effective Date**
Pitsburg Wastewater Treatment Works 200 Railroad Street Pitsburg, OH 45358	9:54 am	October 1, 2009
	Exit Time	**Permit Expiration Date**
	11:20 am	September 31, 2014
Name(s) and Title(s) of On-Site Representatives	**Phone Number(s)**	
Jeremy Bowser, Operator of Record	937.603.4641	
Name, Address and Title of Responsible Official	**Phone Number**	
Village of Pitsburg Tony Spires, Mayor P.O. Box 247 Pitsburg, OH 45358	937.609.1358	

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	M	Laboratory	N	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)

Overall the facility is rated as Satisfactory. A marginal rating was given to the Laboratory due to the following items that require correction. The thermometers used to record refrigeration temperature and effluent temperature requires calibration to a NIST traceable thermometer. Also, the composite sampler for effluent monitoring requires a thermometer for verification of temperature requirements for sample preservation.

Inspector	Reviewer
PE 9/4/2013	9/4/2013
Glen Vonderembse, PE — Date Division of Surface Water Southwest District Office	Martyn Burt — Date Compliance & Enforcement Supervisor Division of Surface Water Southwest 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) 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.....	**Y**

Comments/Status:

The average of the reported flow rates for the reviewed period of August 1, 2012 thru August 26, 2013 is 0.039 MGD. A flow rate of 0.132 MGD was reported on January 13, 2013 .The average daily design flow for the facility is 0.95 MGD.

Section F: Compliance

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

Comments/Status:

A consultant, Hazen and Sawyer, has been contracted to perform a collection system evaluation. The evaluation has found sags in the gravity collection system and inflow/infiltration at pipe and manhole to pipe joints. A product of this evaluation will be a plan to remediate found collection system issues.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

(a) Standby power available.....generator **X** or dual feed ☐..... **Y**

i. What does the back-up power source operate.....

The generator will power all of the wastewater plant unit operations, as well as, the influent lift station located off-site.

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

Twice per month.

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

The following are connected to the auto-dialer that will notify the Operator of alarm occurrences: high water in the wet well; surface sandfilter lift station; power failure; generator activation; and UV transmittance.

(c) All treatment units in service other than backup units..... **Y**

(d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.).....

Calendar

(e) Any major equipment breakdown since last inspection..... **N**

(f) Operation and maintenance manual provided and maintained..... **N/E**

(g) Any plant bypasses since last inspection..... **N**

(h) Any plant upsets since last inspection..... **N**

Comments/Status:

The trash tank (grit tank) is pumped on an annual basis by Mike's Sanitation for hauling to another NPDES permitted facility. Aeration was occurring in the Flow Equalization Tanks. The Mixed Liquor Suspended Solids were noted as being a medium brown with an earthy odor. All of the aeration tanks were operational. Clarifiers were operational with clear water flowing over the level weir. Two of three upflow filters were on-line; the third was clean and offline. When cleaned, the rinse water from the upflow filters is returned to the Primary Sludge Tanks. One of two surface sandfilter beds was online. The north bed was being rested. These beds were free of vegetation and other deleterious material. The UV disinfection system was on-line. Alum was being added prior to the clarifiers to accommodate phosphorous removal. Sludge is returned by gravity, which was operating at the time of inspection.

Section G: Operation & Maintenance con't

Record Keeping/Operator of Record:

(a) Wastewater Treatment Works classification (OAC 3745-7)..... **I**
(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)

Bound notebook.

(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)... **Y**
  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:

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..... **1**
  ii. How many pump stations have telemetered alarms..... **3**
  iii. How many pump stations have operable alarms..... **3**

(b) Any chronic collection system overflows since last inspection..... **N**
(c) Regulatory agency notified of all overflows..... **N/A**
(d) Are there CSOs in the collection system..... **N**
if so, what is the LTCP status.....

(e) How are CSOs monitored (chalk, block, level sensor, etc.).....

(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..... **N/E**
(j) Is any portion of the collection system at or near dry weather capacity..... **N**

Comments/Status:

The collection system is not at or near dry weather capacity. However, the effects of the discovered sags in the gravity collection system pipe will result in a reduction of conveyance capacity for a given sewer segment.

Section H: Sludge Management

(a) Method of Sludge Disposal… ☐ Land Application
X Haul to Another NPDES Permitee
☐ Haul to a Mixed Solid Waste Landfill

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

Class A - Exception Quality Sewage Sludge (monitoring station 584)

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 Solids	Option 8 - >75% Percent Solids with Unstabilized Solids
Alternative 1 – Time and Temperature Regime (84369)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 – High pH and High Temperature (84369)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 3 – Other Processes (84369)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 4 – Unknown Processes (84369)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Composting (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Heat Drying (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Heat Treatment (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Thermophilic Aerobic Digestion (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Beta Ray Irradiation (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Gamma ray Irradiation (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 5 – Pasteurization (84397)	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 6 - Approved Equivalent Process	☐	☐	☐	☐	☐	☐	☐	☐

Class B Sewage Sludge (monitoring station 581)

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)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 - Aerobic Digestion (46396)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 - Air Drying (46396)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 - Anaerobic Digestion (46396)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 – Composting (46396)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 2 - Lime Treatment (46396)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Alternative 3 – Approved Equivalent Process	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

(b) Has amount of sludge generated changed significantly since the last inspection..... **N**

(c) How much sludge storage is provided at the plant.....

15,000 gallons of liquid sludge storage exists.

(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..... **N/A**

(g) Are sludge application sites inspected to verify compliance with NPDES permit..... **N/A**

(h) Is a contractor used for sludge disposal..... **Y**

If so, what is the name of the contractor.....

Mike's Sanitation, an NPDES permitted facility (2IM00014*CD)

Comments/Status:

No screens exist, only the trash tank at the head (beginning) of the plant. Mike's Sanitation transports and disposes of sludge at their NPDES permitted facility.

Section I: Self-Monitoring Program

Flow Measurement:

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

V-Notch Weir with Ultrasonic Level Sensor

(b) Flow meter calibrated annually ..... **Y**
(Date of last calibration: April 1, 2013)

(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**

Comments/Status:

A totalizer is utilized to provide the total flow rate for a given day. This total is transferred to the dial chart used to record flows. The total flow is written above the day on the paper chart.

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**

Comments/Status:

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..... **N/E**

(b) Do SOP's include the following if applicable..... **N/E**

- 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 know 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).. **N/E**

(d) If alternate analytical procedures are used, proper approval has been obtained.....

(e) Analyses being performed more frequently than required by permit. **N**

(f) If (e) is yes, are results in permittee's self-monitoring report..... **N/A**

(g) Satisfactory calibration and maintenance of instruments/equipment. **See Below**
(see score from GLC page)

(h) Commercial laboratory used..... **Y**
Parameters analyzed by commercial lab: **Total Suspended Solids; Oil and Grease; Nitrogen – Ammonia; Total Phosphorous; Fecal Coliform; CBOD**

Lab name: **Belmont Labs**

Discharge Monitoring Report Quality Assurance (DMRQA)

(a) Participation in latest USEPA quality assurance performance sampling..... **N/A**
Date:

(b) Were any parameters "Unsatisfactory"..... **N/A**

(c) Reasons for "Unsatisfactory" parameters.....

Comments/Status:

Only water temperature, dissolved oxygen and pH are conducted onsite. The temperature probe lacked calibration to a NIST traceable thermometer. The composite effluent sampler requires a thermometer.

Section J: Effluent/Receiving Water Observations

Outfall # **001**
Outfall Description: **Metal CMP (Corrugated Metal Pipe) with Rip Rap**

Receiving Stream: **Ludlow Creek**
Receiving Stream Description: **Receiving stream was clear with very light flow.**

Comments/Status:

The receiving stream was found to be free of any visible algae and solids.

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.. **Y**
(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:

An area of rust stained limestone gravel exists around and "flowing away" from a metal casting resembling a manhole cover. This staining is the result from outflow from a dewatering well located under this casting. It is not associated with any waters of the sewage treatment system and is of no concern.