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

October 24, 2011

Re: Harrison County
Village of Bowerston WWTP
0PA00083*GD
April 11, 2011 CEI
Correspondence (PWW)

Mayor and Council
Village of Bowerston
P.O. Box 2
Bowerston, Ohio 44695

Dear Mayor and Council:

On April 11, 2011, I conducted a Compliance Evaluation Inspection of the Village of Bowerston wastewater collection and treatment system. Mr. Robert Sterling, Operator of Record, and John Heavilin, Village of Bowerston, were present, represented the village, and accompanied me during the inspection.

The purpose of the inspection was to determine the village's status of compliance with NPDES discharge permit 0PA00083*GD and the Ohio Water Pollution Control Act, Revised Code Chapter 6111. Some photos were taken.

As a result of the inspection and a review of our files, I have the following comments:

1. Two new aeration lines had been installed and a return line replaced on the west lagoon system. The aeration feed line had been replaced on the east lagoon system.

2. Dry weather plant influent flow is reportedly 18,000 to 21,000 gpd, while wet weather influent flow can be 50,000 gpd to 100,000 gpd. The village has never done smoke testing or televising of the sanitary sewer system. The village must begin such a program to identify the sources of clean water intrusion into the collection system, and to eliminate the sources.

3. Reportedly, no wastewater sample preservation is performed when samples are transported off-site for analysis. Proper sample preservation must be performed, in order for sample results to be valid.

Southeast District Office
2195 Front Street
Logan, OH 43138-8637

740 | 385 8501
740 | 385 6490 (fax)
www.epa.ohio.gov

4. Regarding pump station No. 2, located along the south side of SR 151, on the west side of town, there was a grease build-up inside the wet well. This was reportedly due to the nursing home nearby, which does not have a grease trap. It is recommended that you require the nursing home to install a grease trap, to prevent this build-up of grease. This pump station does not have a bypass pump connection. This should be added, to enable quick connection of a bypass pump system in the event of the need for emergency pumping.

5. There is reportedly a problem with glue getting into the sewer system from the L. J. Smith business. The industrial sewer system user should be required to install some pretreatment capability to prevent this problem.

6. Pump station No. 1, located off of North Main Street was inspected. The second float control reportedly turns both pumps on, while a third float control turns on the warning light. The warning light should come on when the second pump comes on. During flooding conditions, both pumps run continuously for an extended period of time. The station has reportedly run for many days straight when flow levels in the collection system are high. A few manholes can reportedly become covered with flood water at times. For this reason, the clean water intrusion problem into the collection system must be addressed. The village must also determine what measures may be taken to prevent any flood water from getting into the system. Perhaps raising manholes is necessary, or perhaps manhole cover seals are needed. A bypass pump connection is also needed at this station.

7. Regarding the flow meter at the treatment facility, there was no paper in the strip chart recorder. The daily flow is determined with totalizer readings. The paper must be restored to the chart, so that flow peaks can be determined.

8. Some plastic material was observed in a lagoon cell. Some sort of screening basket or screening capability should be installed ahead of the lagoons to prevent materials such as this from passing into the lagoon system.

9. A log book must be kept for the lab instruments, to document calibration of the instruments. Calibration must be performed prior to each use of the instrument.

10. I do not recall seeing a permanent marker (outfall sign) along the Conotton Creek stream bank at the treatment plant outfall, as is required by Part II, Item U, of the NPDES permit. Please comply with this condition, if you have not already done so.

11. A review of the Discharge Monitoring Reports (DMR's) for the period January, 2010 through August, 2011, indicates many limitation violations of the permit, as listed in the attached table.

Given the limitation violations in the attached table, Bowerston was out of compliance with the terms and conditions of the NPDES permit at the time of the inspection, and was also out of compliance through August, 2011.

Attached is a copy of the inspection report. Please provide a written response to each of the items above, within 14 days of the date of this letter.

Sincerely,

Dan Messerly
District Representative
Division of Surface Water

DM/dh

Enclosure

c: Robert Sterling, Harrison County Engineer
c: John Heavilin, Operator, Village of Bowerston

Station	Reporting Code	Parameter	Unit Type	Limit	Reported Value	Violation Date
January 2010:						
001	80082	CBOD 5 day	30D Conc	25	28.7	1/1/2010
001	00400	pH	1D Conc	6.5	6.34	1/27/2010
February 2010:						
001	80082	CBOD 5 day	30D Conc	25	27.4	2/1/2010
001	00400	pH	1D Conc	6.5	6.36	2/11/2010
001	00400	pH	1D Conc	6.5	6.42	2/18/2010
001	00400	pH	1D Conc	6.5	6.43	2/24/2010
March 2010:						
001	80082	CBOD 5 day	30D Conc	25	25.725	3/1/2010
April 2010:						
001	00530	Total Suspended Solids	30D Conc	30	34.9175	4/1/2010
001	80082	CBOD 5 day	30D Conc	25	31.55	4/1/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.51	4/16/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.63	4/23/2010
May 2010:						
001	00530	Total Suspended Solids	30D Conc	30	35.5	5/1/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.54	5/7/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.81	5/28/2010
June 2010:						
001	00400	pH	1D Conc	6.5	5.68	6/4/2010
001	00400	pH	1D Conc	6.5	6.15	6/11/2010
001	00400	pH	1D Conc	6.5	6.2	6/18/2010
July 2010:						
001	00300	Dissolved Oxygen	1D Conc	5.0	4.54	7/30/2010
August 2010:						
001	00530	Total Suspended Solids	30D Conc	30	37.3125	8/1/2010
001	00530	Total Suspended Solids	30D Qty	5.8	6.33988	8/1/2010
001	80082	CBOD 5 day	30D Conc	25	29.375	8/1/2010
001	80082	CBOD 5 day	30D Qty	4.83	5.05913	8/1/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	8/6/2010
001	00400	pH	1D Conc	6.5	6.07	8/6/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.08	8/10/2010
001	00400	pH	1D Conc	6.5	6.36	8/11/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.97	8/11/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.61	8/12/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.17	8/13/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.82	8/13/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/14/2010
001	00300	Dissolved Oxygen	1D Conc	5.0	4.81	8/14/2010
001	00530	Total Suspended Solids	7D Qty	8.69	19.6441	8/15/2010
001	80082	CBOD 5 day	7D Qty	7.73	15.897	8/15/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/16/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	8/20/2010
001	00530	Total Suspended Solids	7D Conc	45	46.	8/22/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	8/23/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/25/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/26/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	8/27/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	8/28/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	8/30/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.1	8/31/2010

Station	Reporting Code	Parameter	Unit Type	Limit	Reported Value	Violation Date
September, 2010:						
001	00530	Total Suspended Solids	30D Conc	30	31.55	9/1/2010
001	00530	Total Suspended Solids	7D Conc	45	45.4	9/1/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	9/1/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	9/2/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	9/4/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	9/5/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.08	9/6/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.09	9/7/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	9/9/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	9/10/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.08	9/11/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	9/14/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	9/15/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.09	9/17/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	9/18/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	9/19/2010
001	00530	Total Suspended Solids	7D Qty	8.69	9.56848	9/22/2010
October 2010:						
001	31616	Fecal Coliform	30D Conc	1000	100.	10/1/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	10/1/2010
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	10/24/2010
December 2010:						
001	80082	CBOD 5 day	7D Qty	7.73	8.02571	12/1/2010
January 2011:						
001	80082	CBOD 5 day	30D Conc	25	30.	1/1/2011
February 2011:						
001	80082	CBOD 5 day	30D Conc	25	27.375	2/1/2011
001	80082	CBOD 5 day	30D Qty	4.83	6.17239	2/1/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.85	2/11/2011
001	00400	pH	1D Conc	6.5	5.6	2/18/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.65	2/18/2011
001	80082	CBOD 5 day	7D Qty	7.73	8.45077	2/22/2011
April 2011:						
001	00530	Total Suspended Solids	7D Qty	8.69	9.2217	4/1/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.95	4/15/2011
May 2011:						
001	80082	CBOD 5 day	30D Conc	25	28.525	5/1/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.87	5/12/2011
June 2011:						
001	31616	Fecal Coliform	30D Conc	1000	1000.	6/1/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	6/2/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.06	6/8/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.95	6/10/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.08	6/23/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.18	6/27/2011
July 2011:						
001	00530	Total Suspended Solids	30D Conc	30	37.75	7/1/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	7/2/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	7/5/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	7/9/2011
001	00530	Total Suspended Solids	7D Qty	8.69	10.4163	7/15/2011

Station	Reporting Code	Parameter	Unit Type	Limit	Reported Value	Violation Date
001	50060	Chlorine, Total Residual	1D Conc	0.038	.08	7/15/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	7/18/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	7/28/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.09	7/29/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.9	7/29/2011
August 2011:						
001	00530	Total Suspended Solids	30D Conc	30	37.	8/1/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.09	8/1/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.07	8/3/2011
001	00300	Dissolved Oxygen	1D Conc	5.0	4.69	8/5/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.09	8/6/2011
001	00530	Total Suspended Solids	7D Conc	45	47.5	8/8/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/12/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/15/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/16/2011
001	50060	Chlorine, Total Residual	1D Conc	0.038	.05	8/19/2011

NPDES
Compliance Inspection Report

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
0PA00083*GD	OH0041378	April 11, 2011	C	S	1

B. FACILITY DATA

Name & Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Bowerston Wastewater Treatment Works NE corner of intersection of S.R. 212 & S.R. 151 Bowerston, Ohio, Harrison County	~10:00 a.m.	August 1, 2008
	Exit Time	**Permit Expiration Date**
	~1:00 p.m.	July 31, 2013

Name(s) & Title(s) of On-Site Representative(s)	Phone Number(s)
Robert Sterling, Harrison County Engineer, Operator of Record John Heavilin, Operator	(740) 942-8867 (740) 269-9252
Name, Address, & Title of Responsible Official	**Phone Number**
George Benish, Mayor Village of Bowerston P.O. Box 2 Bowerston, Ohio 44695	(740) 269-7201

C. AREAS EVALUATED DURING INSPECTION

S	Permit	U	Flow Measurement	N/A	Pretreatment
M	Records/Reports	S	Laboratory	N/A	Compliance Schedules
S	Operations & Maintenance	U	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal		Other
U	Collection System				

(S = Satisfactory; M = Marginal; U = Unsatisfactory; N = Not Evaluated; N/A = Not Applicable)

D. SUMMARY OF FINDINGS/COMMENTS (attach additional sheets if necessary)

Harrison County (Robert Sterling) became Operator of Record in late August 2010.
Bowerston performs pH, D.O., and chlorine analysis on-site, everything else performed at Atwood Regional WWTP, in New Cumberland.
See attached letter.

Dan Messerly — 10/24/11

Dan Messerly, Inspector, Ohio EPA, Southeast District Office — Date

Jennifer M. Witte — 10/24/11

Jennifer M. Witte, Reviewer, Ohio EPA, Southeast District Office — Date