



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

November 7, 2012

RE: STREETSBORO WWTP
PERMIT NO. 3PK00014*GD
PORTAGE COUNTY
STREETSBORO

Mr. Wayne A. Carkido
Wastewater Division Manager
Portage County Water Resources
449 S. Meridian Street
Ravenna, Ohio 44266

Dear Mr. Carkido:

On October 4, 2012, an inspection of the above referenced facility was conducted. The facility was represented by Mr. Jim Akerley, Superintendent and you. The purpose of the inspection was to: (1) evaluate the performance of the wastewater treatment system along with the facility's compliance status with respect to the terms and conditions of the above-referenced National Pollutant Discharge Elimination System (NPDES) permit; and (2) determine required additional actions to be undertaken as part of the permit renewal process.

During the inspection, the following items were noted/discussed:

1. The plant design of the wastewater treatment system is 4.0 MGD.
2. Summit County sends approximately 700,000 gallons per day of wastewater to the Streetsboro Wastewater Treatment Plant (WWTP). Portage County has an agreement with Summit County to accept 1.1 MGD at the Streetsboro WWTP.
3. Approximately 700,000 gallons per day of wastewater from the Portage County Brimfield area is sent to Fish Creek WWTP. Portage County has an agreement that they will accept up to 1.5 MGD.
4. In accordance with Ohio Administrative Code 3745-7-04, the sewage treatment facility is classified as a Class III facility. Once the facility's permit is renewed, the permittee shall ensure that the treatment works operator of record is physically present at the facility five days per week for a minimum of forty hours per week.
5. Currently the plant is staffed with the following personnel:
 - A. 1 - Superintendent – holds a Class III Wastewater License
 - B. 3 - Class III Wastewater Treatment Plant Operators
 - C. 3 – Class I Wastewater Treatment Plant Operators
6. A one megawatt emergency generator was installed at the plant at the end of 2010. The generator is capable of running the entire plant.
7. Both stabilization tanks and both contact tanks were cleaned and reconditioned in 2010.
8. The chlorine contact tank was cleaned and reconditioned in 2010. The gates were replaced.
9. You indicated that the plant is scheduled to convert to Ultra-violet disinfection next year.

10. Three of five digesters have been reconditioned in the past two years. The diffuser drops have been replaced. The remaining two digesters are scheduled to be reconditioned within the next two years.
11. New aluminum handrails have recently been installed around all three clarifiers.
12. Screw pump #2 is scheduled to be serviced to replace the bearings.
13. The facility is currently in the process of installing the following treatment units:
 - A. Mechanical Dewatering Centrifuge - proposed to be installed by Thanksgiving.
 - B. Class 'A' Biosolids Sludge Dryer - proposed to be installed and operational by Christmas.
14. The volume of sludge generated will be reduced to approximately 1/3 of what is currently generated. Presently, 1,000-1,100 tons per year is generated. The amount of sludge generated is estimated to be reduced to 300 tons per year.
15. The dryer is estimated to run 2 days per week, 16 hours per day. The dryer is a continuous feed process.
16. The treatment units will produce a Class 'A' sludge.
17. You are currently in the process of bidding out the chemicals/polymers for the centrifuge. A one year contract is proposed to be awarded.
18. The facility was originally equipped with two presses. One press was sold and replaced with the centrifuge.
19. The centrifuge will be the primary source of dewatering the sludge. The remaining press will be utilized as a back-up system.
20. Six County plants take sludge to the Streetsboro WWTP.
21. No sludge or septage is taken from outside the County.
22. Portage County Water Resources is building a silo and barn to store the sludge.
23. The treatment plant outfall is proposed to be redone in 2013 or 2014. The outfall is going to be reconfigured so that the effluent will be discharged in the direction of the flow of the stream.
24. Waste Management picks up the grit at the plant. The grit is hauled to American Landfill.
25. Portage County hauls the sludge cake to County Wide Landfill.
26. The plant continues to operate effectively and produce an acceptable quality effluent.
27. The effluent was clear and was receiving post aeration prior to being discharged to Tinkers Creek.
28. Please note the following includes some of the changes to the facility NPDES permit:
 - A. A schedule of compliance will be placed in the permit renewal, which requires the facility to meet E. Coli limits in the final table for outfall monitoring station 3PK00014001.
 - B. Sampling station 3PK00014588 will be removed.
 - C. Total dissolved solids monitoring will be added to outfall 3PK00014001.
29. Additional changes to the permit may also be made pending the results of the Waste Load Allocation which is currently being prepared.
30. Once the facility's renewal permit is drafted it will be public noticed. During public notice, you will have a 30 day period to evaluate your permit and comment in writing any concerns you may have.

This office has recently reviewed your self-monitoring reports covering the period October 1, 2009 through September 30, 2012 for the referenced facility. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are as follows:

Limit Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	61942	pH, Minimum	1D Conc	6.5	6.13	2/18/2010
001	61941	pH, Maximum	1D Conc	9.0	9.22	2/22/2010
001	61942	pH, Minimum	1D Conc	6.5	6.39	3/30/2010
001	61942	pH, Minimum	1D Conc	6.5	5.87	5/18/2010
001	61942	pH, Minimum	1D Conc	6.5	6.09	5/31/2010
001	61942	pH, Minimum	1D Conc	6.5	6.46	6/27/2010
001	50092	Mercury, Total (Low Level)	30D Conc	1.3	2.205	11/1/2010
001	50092	Mercury, Total (Low Level)	30D Qty	0.0000	.00003	11/1/2010
001	01119	Copper, Total Recoverable	30D Qty	0.379	.49047	3/1/2011
001	50092	Mercury, Total (Low Level)	30D Conc	1.3	1.765	3/1/2011
001	50092	Mercury, Total (Low Level)	30D Qty	0.0000	.00002	3/1/2011
001	00665	Phosphorus, Total (P)	7D Conc	0.7	.8	4/15/2011
001	00665	Phosphorus, Total (P)	7D Qty	10.6	17.7743	4/15/2011
001	50092	Mercury, Total (Low Level)	30D Conc	1.3	1.3555	3/1/2012
001	50092	Mercury, Total (Low Level)	30D Conc	1.3	2.04	9/1/2012
001	50092	Mercury, Total (Low Level)	30D Qty	0.0000	.00002	9/1/2012

Frequency Violations

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	00530	Total Suspended Solids	3/Week	3	2	10/01/2009
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	10/01/2009
001	31616	Fecal Coliform	3/Week	3	2	10/01/2009
001	80082	CBOD 5 day	3/Week	3	2	10/01/2009
001	00665	Phosphorus, Total (P)	1/Week	1	0	10/01/2009
001	00530	Total Suspended Solids	3/Week	3	2	06/22/2010
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	06/22/2010
001	31616	Fecal Coliform	3/Week	3	2	06/22/2010
001	80082	CBOD 5 day	3/Week	3	2	06/22/2010
001	00530	Total Suspended Solids	3/Week	3	2	02/08/2011
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	02/08/2011
001	80082	CBOD 5 day	3/Week	3	2	02/08/2011
001	00530	Total Suspended Solids	3/Week	3	2	06/22/2011
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	06/22/2011
001	80082	CBOD 5 day	3/Week	3	2	06/22/2011
001	00530	Total Suspended Solids	3/Week	3	2	12/15/2011
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	12/15/2011
001	80082	CBOD 5 day	3/Week	3	2	12/15/2011
001	00665	Phosphorus, Total (P)	1/Week	1	0	12/22/2011
001	00530	Total Suspended Solids	3/Week	3	2	02/08/2012
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	02/08/2012
001	80082	CBOD 5 day	3/Week	3	2	02/08/2012
001	00530	Total Suspended Solids	3/Week	3	2	05/15/2012
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	05/15/2012
001	80082	CBOD 5 day	3/Week	3	2	05/15/2012
001	00530	Total Suspended Solids	3/Week	3	2	08/22/2012
001	00610	Nitrogen, Ammonia (NH3)	3/Week	3	2	08/22/2012
001	80082	CBOD 5 day	3/Week	3	2	08/22/2012

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
601	00530	Total Suspended Solids	3/Week	3	2	10/01/2009
601	80082	CBOD 5 day	3/Week	3	2	10/01/2009
601	00530	Total Suspended Solids	3/Week	3	2	06/22/2010
601	80082	CBOD 5 day	3/Week	3	2	06/22/2010
601	00530	Total Suspended Solids	3/Week	3	2	02/08/2011
601	80082	CBOD 5 day	3/Week	3	2	02/08/2011
601	00530	Total Suspended Solids	3/Week	3	2	06/22/2011
601	80082	CBOD 5 day	3/Week	3	2	06/22/2011
601	00530	Total Suspended Solids	3/Week	3	2	12/15/2011
601	80082	CBOD 5 day	3/Week	3	2	12/15/2011
601	00530	Total Suspended Solids	3/Week	3	2	02/08/2012
601	80082	CBOD 5 day	3/Week	3	2	02/08/2012
601	00530	Total Suspended Solids	3/Week	3	2	05/15/2012
601	80082	CBOD 5 day	3/Week	3	2	05/15/2012
601	00530	Total Suspended Solids	3/Week	3	2	08/22/2012
601	80082	CBOD 5 day	3/Week	3	2	08/22/2012

Code Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	31616	Fecal Coliform			AK	6/29/2010
001	61941	pH, Maximum			AD	11/25/2010
801	31616	Fecal Coliform			AK	6/22/2011
901	31616	Fecal Coliform			AK	6/22/2011
001	31616	Fecal Coliform			AK	6/30/2011
001	31616	Fecal Coliform			AK	7/13/2011
001	31616	Fecal Coliform			AK	9/27/2011

Please be advised that such instances of noncompliance may be cause for enforcement actions pursuant to the Ohio Revised Code, Chapter 6111.

Should you have any comments or questions concerning this letter, please feel free to call me at (330) 963-1143.

Respectfully,

Michael W. Stevens

Michael W. Stevens
 Environmental Engineer
 Division of Surface Water

MWS/cs