



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Rd.  
Bowling Green, OH 43402-9398

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[www.epa.state.oh.us](http://www.epa.state.oh.us)

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

Re: Seneca County  
Seneca County Facilities & Jail  
Sewerage

May 22, 2009

Seneca County Commissioners  
111 Madison Street  
Tiffin, Ohio 44883

Dear Commissioners:

On September 9, 2008, an inspection was made of the wastewater treatment facility which serves the Seneca County Facilities. Mr. Brad Borer, Technical Consultant/Certified Operator, was present and provided information regarding the plant's operation. Observations and recommendations noted during the inspection are as follows:

1. The plant was operating and had what appeared to be adequate aeration at the time of the inspection.
2. Four sludge returns and two skimmers were in use. Some return sludge is being routed into the equalization tank (EQ).
3. The aeration tanks were noted to have an uneven distribution of aeration within the tanks.
4. Some sludge bulking was observed in the clarifier. Scraping of the clarifier hopper walls on a more frequent basis is recommended to reduce sludge bulking.
5. Effluent observed discharging from the weir contained a slight amount of solids.
6. The west sand filter was in use, and the east filter was noted to have ponded water at the time of the inspection.
7. Ultraviolet (UV) disinfection was in use. Disinfection must be provided from May through October.

Seneca County Commissioners  
May 22, 2009  
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8. The data being reported on the discharge monitoring reports (DMRs) appears to be an averaged flow based on numerous days. Flows are to be reported daily as required by the NPDES permit.

Further review of the flow monitoring data shows prolonged occurrences of flows that greatly exceed the design flow of the WWTP. Clean water connections, older, leaky or damaged sewers often contribute to this problem, resulting in inflow and infiltration (I/I). The I/I issues need to be evaluated and corrected prior to connection to the regional sanitary sewer.

As per the NPDES Permit, Part I, C - Schedule of Compliance: This entity shall connect to the sanitary sewer and abandon the onsite wastewater treatment plant, not later than January 1, 2011. The required fixed date planning and construction schedule has been received at this office.

A compliance review of your discharge monitoring reports (DMRs) has also been conducted. A list of permit violations (January 2006 - March 2009) is enclosed.

In addition to the violations noted above, daily flows currently exceed the facility's design flow rate. No additional sources of wastewater are to be added to the existing wastewater treatment facility prior to connection to the regional (Tiffin) sewage system.

If there are any questions, please advise.

Yours truly,

  
Mary Beth Cohen  
Division of Surface Water

/llr

Enclosure

pc: Seneca County General Health District  
Mr. Brad Borer, Certified Operator  
Ms. Ann Bishop, Seneca Regional Planning Commission  
↳DSW-NWDO-File

**OHIO ENVIRONMENTAL PROTECTION AGENCY  
OPERATION AND MAINTENANCE INSPECTION  
WWTP'S LESS THAN 25,000 GPD**

NPDES Permit No. 2PG00088

Facility Name Seneca County Facilities & Jail Expiration Date 12/31/2010

Facility Address \_\_\_\_\_ Date 09/09/2008 Time 11:30 am

City Tiffin County Seneca Township Clinton

Name and Address of Owner Seneca County Commissioners, 111 Madison St., Tiffin, OH 44883

Person Contacted Brad Borer, Certified Operator Owner Phone \_\_\_\_\_

Flow: Design 31,250 GPD Present 37,000 (based on reported averages) GPD (metered)

Trib. Pop. \_\_\_\_\_ (actual - estimated) Weather at time of inspection: Temp warm / clear

OEPA Personnel Mary Beth Cohen District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	Colorless
1	Mild	<input checked="" type="checkbox"/>					
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: not observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has \_\_\_\_\_ excellent \_\_\_\_\_ good  fair \_\_\_\_\_ poor operation  
 b. Plant has \_\_\_\_\_ excellent  good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance  
 c. Sand filters have \_\_\_\_\_ excellent  good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance

d. Not operating at expected efficiency due to:

- (1)  hydraulic overload  
 (2) \_\_\_\_\_ organic/solids overload  
 (3) \_\_\_\_\_ personnel inefficiency  
 (4) \_\_\_\_\_ equipment failure  
 (5) \_\_\_\_\_ wastes  
 (6) trash from jail

Disinfection: (Required May 1 thru Oct. 31)	
IN	OUT
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<input checked="" type="checkbox"/>	_____ Ultraviolet (U.V.)

Yes No

4.  \_\_\_\_\_ Compliance with NPDES Permit  
 Periodic Violations  Y N Parameters: \_\_\_\_\_  
 Chronic Violations  \_\_\_\_\_

5.  \_\_\_\_\_ Adequate plant safety

6.  \_\_\_\_\_ Operation and Maintenance Service

Name Brad Borer, Certified Operator  
 Frequency of Visits 2/ week

Facility Name: **Seneca County Facilities & Jail**

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	√	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	√	Flow Equalization / Pre Aeration	
Aeration Equipment	√	Plant Timer <u>    </u> Y <u>√</u> N Motor / Blower Unit	Cycle Time:
Secondary Treatment	√	Aeration Tank - <i>Uneven aeration</i>	Color: <i>Light brown</i> Adequate Aeration Y <u>    </u> N <u>√</u>
Final Settling	√	Clarifier	<i>Bulking solids, slight flock over weir</i>
	√	Sludge Return	<i>Four (4) -all operating</i>
	√	Surface Skimmer	<i>Two(2) - both operating</i>
		Fixed Media Clarifier	
Tertiary Treatment	√	Surface Sand Filter	<i>East filter flooded, west filter in use</i>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	√	Ultraviolet (UV)	<i>Operating</i>
Flow Metering	√	Elapsed Pump Time	<i>At dosing</i>
		Recorder (continuous total)	
Pumps	√	Raw Wastewater (type)	<i>Grinder</i>
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	√	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	√	Post Aeration	
		Spray Irrigation	
		Other	

Seneca County Facilities & Jail 2PG00088\*CD  
 Limit Violations Jan 2006 thru March 2009

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2006	001	00530	Total Suspended Solids	1D Conc	18	20.	1/2/2006
January 2006	001	00530	Total Suspended Solids	1D Qty	2.1	2.4224	1/2/2006
December 2006	001	00530	Total Suspended Solids	1D Conc	18	26.	12/15/2006
December 2006	001	00530	Total Suspended Solids	1D Qty	2.1	2.9523	12/15/2006
March 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	6.8	17.1	3/1/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.5	14.45	3/1/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.8	3.88341	3/1/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.5	3.50491	3/1/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	6.8	11.8	3/15/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.8	3.12641	3/15/2007
April 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	6.8	6.84	4/2/2007
April 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.8	.90613	4/2/2007
May 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	3.25667	5/1/2007
May 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.37594	5/1/2007
May 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	6.31	5/15/2007
May 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	.69262	5/15/2007
June 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	1.595	6/1/2007
June 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.20526	6/1/2007
June 2007	001	80082	CBOD 5 day	1D Conc	15	17.	6/15/2007
June 2007	001	80082	CBOD 5 day	1D Qty	1.8	2.18773	6/15/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	5.975	7/1/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.89676	7/1/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	6.39	7/9/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	.84652	7/9/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	5.56	7/16/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	.94701	7/16/2007
August 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.33728	8/1/2007
August 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	.43603	8/20/2007
August 2007	001	00530	Total Suspended Solids	1D Qty	2.1	2.49053	8/21/2007
August 2007	001	80082	CBOD 5 day	1D Qty	1.8	2.23315	8/23/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	6.36	9/1/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.63085	9/1/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	10.7	9/4/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	1.09349	9/4/2007
September 2007	001	80082	CBOD 5 day	1D Conc	15	16.	9/4/2007
November 2007	001	00530	Total Suspended Solids	1D Conc	18	19.	11/1/2007
December 2007	001	00530	Total Suspended Solids	30D Conc	12	12.25	12/1/2007
December 2007	001	00530	Total Suspended Solids	30D Qty	1.4	1.93319	12/1/2007
December 2007	001	00530	Total Suspended Solids	1D Conc	18	23.	12/3/2007
December 2007	001	00530	Total Suspended Solids	1D Qty	2.1	4.00453	12/3/2007
January 2008	001	00530	Total Suspended Solids	1D Conc	18	25.	1/8/2008
January 2008	001	00530	Total Suspended Solids	1D Qty	2.1	3.12263	1/8/2008
February 2008	001	00530	Total Suspended Solids	30D Conc	12	29.	2/1/2008
February 2008	001	00530	Total Suspended Solids	30D Qty	1.4	2.64193	2/1/2008
February 2008	001	80082	CBOD 5 day	30D Qty	1.2	1.40991	2/1/2008
February 2008	001	80082	CBOD 5 day	1D Qty	1.8	2.1196	2/9/2008
February 2008	001	00530	Total Suspended Solids	1D Conc	18	71.	2/25/2008
February 2008	001	00530	Total Suspended Solids	1D Qty	2.1	5.91217	2/25/2008

Seneca County Facilities & Jail 2PG00088\*CD  
 Limit Violations Jan 2006 thru March 2009

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2008	001	00530	Total Suspended Solids	30D Conc	12	82.	3/1/2008
March 2008	001	00530	Total Suspended Solids	30D Qty	1.4	5.65384	3/1/2008
March 2008	001	80082	CBOD 5 day	30D Conc	10	13.25	3/1/2008
March 2008	001	80082	CBOD 5 day	30D Qty	1.2	384.934	3/1/2008
March 2008	001	00530	Total Suspended Solids	1D Conc	18	300.	3/3/2008
March 2008	001	00530	Total Suspended Solids	1D Qty	2.1	17.0325	3/3/2008
March 2008	001	80082	CBOD 5 day	1D Conc	15	35.	3/3/2008
March 2008	001	80082	CBOD 5 day	1D Qty	1.8	1.98713	3/3/2008
March 2008	001	00530	Total Suspended Solids	1D Qty	2.1	4.0878	3/17/2008
March 2008	001	80082	CBOD 5 day	1D Qty	1.8	1536.71	3/27/2008
April 2008	001	00530	Total Suspended Solids	30D Conc	12	14.25	4/1/2008
April 2008	001	00530	Total Suspended Solids	30D Qty	1.4	2.04863	4/1/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.5	13.54	4/1/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.5	1.59008	4/1/2008
April 2008	001	80082	CBOD 5 day	30D Conc	10	36.75	4/1/2008
April 2008	001	80082	CBOD 5 day	30D Qty	1.2	4.80033	4/1/2008
April 2008	001	00530	Total Suspended Solids	1D Qty	2.1	3.23239	4/8/2008
April 2008	001	80082	CBOD 5 day	1D Qty	1.8	3.46328	4/8/2008
April 2008	001	00530	Total Suspended Solids	1D Conc	18	32.	4/22/2008
April 2008	001	00530	Total Suspended Solids	1D Qty	2.1	3.75472	4/22/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	6.8	27.	4/22/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.8	3.16805	4/22/2008
April 2008	001	80082	CBOD 5 day	1D Conc	15	110.	4/22/2008
April 2008	001	80082	CBOD 5 day	1D Qty	1.8	12.9068	4/22/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	3.22667	5/1/2008
May 2008	001	31616	Fecal Coliform	30D Conc	1000	1000.	5/1/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	2.45	5/5/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	4.12	5/19/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	3.11	5/22/2008
June 2008	001	00530	Total Suspended Solids	30D Conc	12	28.	6/1/2008
June 2008	001	00530	Total Suspended Solids	30D Qty	1.4	5.01607	6/1/2008
June 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.20149	6/1/2008
June 2008	001	80082	CBOD 5 day	30D Conc	10	33.	6/1/2008
June 2008	001	80082	CBOD 5 day	30D Qty	1.2	5.10975	6/1/2008
June 2008	001	00530	Total Suspended Solids	1D Conc	18	21.	6/2/2008
June 2008	001	00530	Total Suspended Solids	1D Qty	2.1	2.86146	6/2/2008
June 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	2.3	2.67	6/2/2008
June 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.3	.36381	6/2/2008
June 2008	001	80082	CBOD 5 day	1D Conc	15	84.	6/2/2008
June 2008	001	80082	CBOD 5 day	1D Qty	1.8	11.4458	6/2/2008
June 2008	001	00530	Total Suspended Solids	1D Conc	18	67.	6/9/2008
June 2008	001	00530	Total Suspended Solids	1D Qty	2.1	13.6941	6/9/2008
June 2008	001	80082	CBOD 5 day	1D Conc	15	36.	6/9/2008
June 2008	001	80082	CBOD 5 day	1D Qty	1.8	7.35804	6/9/2008
June 2008	001	00300	Dissolved Oxygen	1D Conc	5.0	3.59	6/9/2008
June 2008	001	00530	Total Suspended Solids	1D Qty	2.1	2.31642	6/20/2008
August 2008	001	31616	Fecal Coliform	30D Conc	1000	1000.	8/1/2008
September 2008	001	80082	CBOD 5 day	1D Conc	15	25.	9/22/2008
September 2008	001	80082	CBOD 5 day	1D Qty	1.8	3.4065	9/22/2008

Seneca County Facilities & Jail 2PG00088\*CD  
 Limit Violations Jan 2006 thru March 2009

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
October 2008	001	00530	Total Suspended Solids	30D Conc	12	27.25	10/1/2008
October 2008	001	00530	Total Suspended Solids	30D Qty	1.4	2.15367	10/1/2008
October 2008	001	80082	CBOD 5 day	30D Conc	10	10.5	10/1/2008
October 2008	001	00530	Total Suspended Solids	1D Conc	18	31.	10/20/2008
October 2008	001	00530	Total Suspended Solids	1D Qty	2.1	2.69871	10/20/2008
October 2008	001	00530	Total Suspended Solids	1D Conc	18	45.	10/27/2008
October 2008	001	00530	Total Suspended Solids	1D Qty	2.1	3.91748	10/27/2008
October 2008	001	80082	CBOD 5 day	1D Conc	15	31.	10/27/2008
October 2008	001	80082	CBOD 5 day	1D Qty	1.8	2.69871	10/27/2008
November 2008	001	00530	Total Suspended Solids	1D Conc	18	27.	11/10/2008
December 2008	001	00530	Total Suspended Solids	1D Conc	18	32.	12/1/2008
December 2008	001	00530	Total Suspended Solids	30D Conc	12	18.5	12/1/2008
December 2008	001	00530	Total Suspended Solids	1D Qty	2.1	3.51248	12/1/2008
December 2008	001	00530	Total Suspended Solids	30D Qty	1.4	2.5615	12/1/2008
December 2008	001	00530	Total Suspended Solids	1D Qty	2.1	2.84632	12/8/2008
December 2008	001	00530	Total Suspended Solids	1D Conc	18	19.	12/15/2008
December 2008	001	00530	Total Suspended Solids	1D Qty	2.1	2.58894	12/15/2008
February 2009	001	00530	Total Suspended Solids	30D Conc	12	43.5	2/1/2009
February 2009	001	00530	Total Suspended Solids	30D Qty	1.4	4.0244	2/1/2009
February 2009	001	00530	Total Suspended Solids	1D Conc	18	126.	2/2/2009
February 2009	001	00530	Total Suspended Solids	1D Qty	2.1	8.58438	2/2/2009
February 2009	001	00530	Total Suspended Solids	1D Qty	2.1	2.46025	2/9/2009
February 2009	001	00530	Total Suspended Solids	1D Conc	18	22.	2/23/2009
February 2009	001	00530	Total Suspended Solids	1D Qty	2.1	3.3308	2/23/2009
March 2009	001	00530	Total Suspended Solids	30D Conc	12	45.5	3/1/2009
March 2009	001	00530	Total Suspended Solids	30D Qty	1.4	8.01568	3/1/2009
March 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	4.5	9.105	3/1/2009
March 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.5	1.83605	3/1/2009
March 2009	001	80082	CBOD 5 day	30D Conc	10	20.5	3/1/2009
March 2009	001	80082	CBOD 5 day	30D Qty	1.2	3.76134	3/1/2009
March 2009	001	00530	Total Suspended Solids	1D Conc	18	34.	3/2/2009
March 2009	001	00530	Total Suspended Solids	1D Qty	2.1	4.76153	3/2/2009
March 2009	001	80082	CBOD 5 day	1D Conc	15	18.	3/2/2009
March 2009	001	80082	CBOD 5 day	1D Qty	1.8	2.52081	3/2/2009
March 2009	001	00530	Total Suspended Solids	1D Conc	18	57.	3/9/2009
March 2009	001	00530	Total Suspended Solids	1D Qty	2.1	12.0817	3/9/2009
March 2009	001	80082	CBOD 5 day	1D Conc	15	41.	3/9/2009
March 2009	001	80082	CBOD 5 day	1D Qty	1.8	8.69036	3/9/2009
March 2009	001	00530	Total Suspended Solids	1D Conc	18	43.	3/19/2009
March 2009	001	00530	Total Suspended Solids	1D Qty	2.1	5.04541	3/19/2009
March 2009	001	00530	Total Suspended Solids	1D Conc	18	48.	3/23/2009
March 2009	001	00530	Total Suspended Solids	1D Qty	2.1	10.1740	3/23/2009
March 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	6.8	15.6	3/23/2009
March 2009	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.8	3.30658	3/23/2009
March 2009	001	80082	CBOD 5 day	1D Qty	1.8	2.54352	3/23/2009