Ohio | Environmental Protection Agency

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

June 6, 2011

RE: BEAVER LOCAL WWTP
13093 STATE ROUTE 7
COMPLIANCE EVALUATION NSPECTION
NPDES PERMIT NO. 3PB00070
MADISON TOWNSHIP
COLUMBIANA COUNTY

Mr. Troy Graft, P.E.
Chief Engineer
Columbiana County Engineer
105 South Market Street
Lisbon, OH 44432

Dear Mr. Graft:

On May 17, 2011, this writer conducted a compliance evaluation inspection of the Columbiana County Beaver Local WWTP located at the above referenced address. The County was represented by Mr. Chuck Webber.

The following is a summary of the inspection:

1) The wastewater treatment plant consists of a trash trap, flow equalization, extended aeration tanks, settling tanks, flow meter, dosing chamber, rapid sand filters, phosphorus removal and UV disinfection. The facility also has a sludge holding tank.

2) At the time of the inspection the plant was experiencing high flows due to storm events. The water levels in the tanks were extremely high. The flow equalization tank was full. The aeration tank had the air supply shut off to prevent solids from passing through to the rapid sand filters. The settling tank weirs appeared to be under water. The rapid sand filters were blinded and the automatic backwash system had malfunctioned. The ultraviolet disinfection was operational.

3) The wastewater treatment plant effluent data was reviewed from June, 2008 through April, 2011. The effluent violations for this facility are attached to this letter. The plant has not performed well over the time period evaluated and is considered to be in significant non-compliance. High flows from the mobile home park collection system have contributed to the problem.

4) Staffing levels at the various County run wastewater treatment plants is a concern. Mr. Webber indicated that there are roughly 4 licensed operators (one of which is used as maintenance staff) and a maintenance worker. The County is in the process of hiring additional staff. The staffing classifications and requirements are outlined in OAC 3745-07. The County must provide an Operator of Record form to the Columbus Office for each wastewater treatment plant. In order to be eligible to sign the monthly operating reports they must comply with the following from the rule:

The operator of record shall, at a minimum, be physically present at the treatment works and fulfill the time requirements in the following table and perform technical operation as assigned by the permittee of the treatment works.

-Minimum staffing requirements for the operator of record –

System classification	*Staffing requirement*
Class A	*2 days per week for a minimum of 1 hour per week*
Class I	*3 days per week for a minimum of 1.5 hours per week*
Class II	*5 days a week for a minimum of 20 hours per week*
Class III and IV	*5 days a week for a minimum of 40 hours per week*

Please provide a written response as to your compliance with this rule at the current staffing levels. Please keep in mind that this is for operation only. Most of you staff is also expected to perform maintenance, sampling, laboratory analysis, reporting and supervision. Based on the above, Mr. Daniels would be full time at the Elkton plant, and Mr. Webber could cover Guilford Lake and Beaver Local. That would leave one operator to handle approximately 7 plants.

This office is not sure how the current staff is maintaining operations let alone all the other job duties.

This is a relatively new plant that discharges to a river with a very high water quality designation (State Wild and Scenic). Please respond by June 24, 2011, the steps the County intends to take to return this facility to compliance.

Should you have any comments or questions, feel free to contact me at (330) 963-1193.

Respectfully,

Joseph E. Trocchio

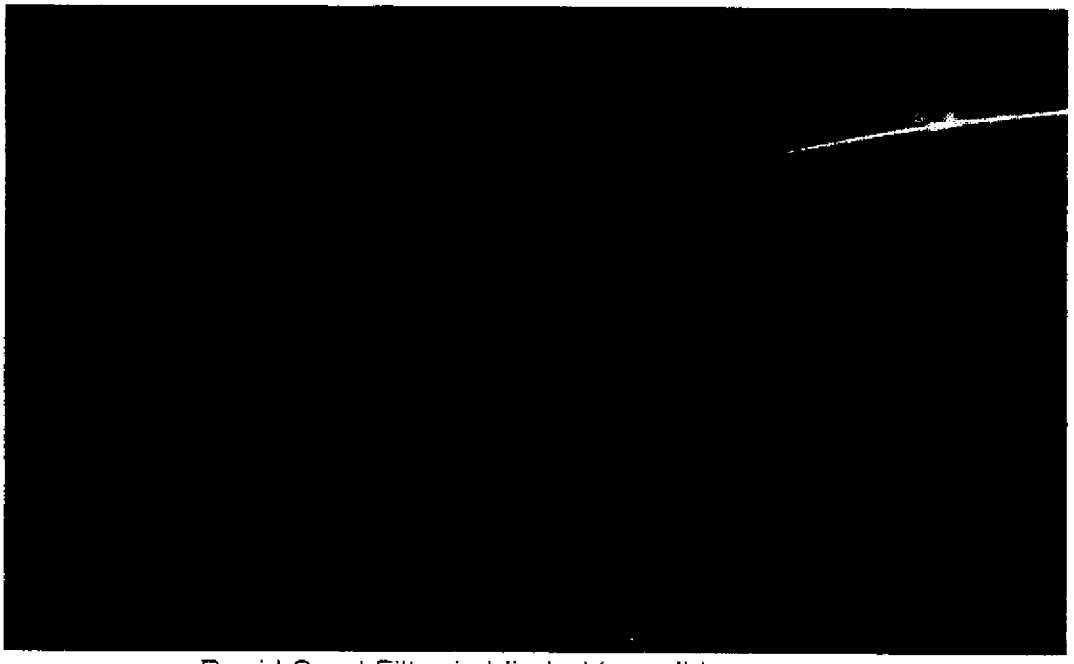
Joseph E. Trocchio, P.E.
Environmental Engineer
Division of Surface Water

JET/mt

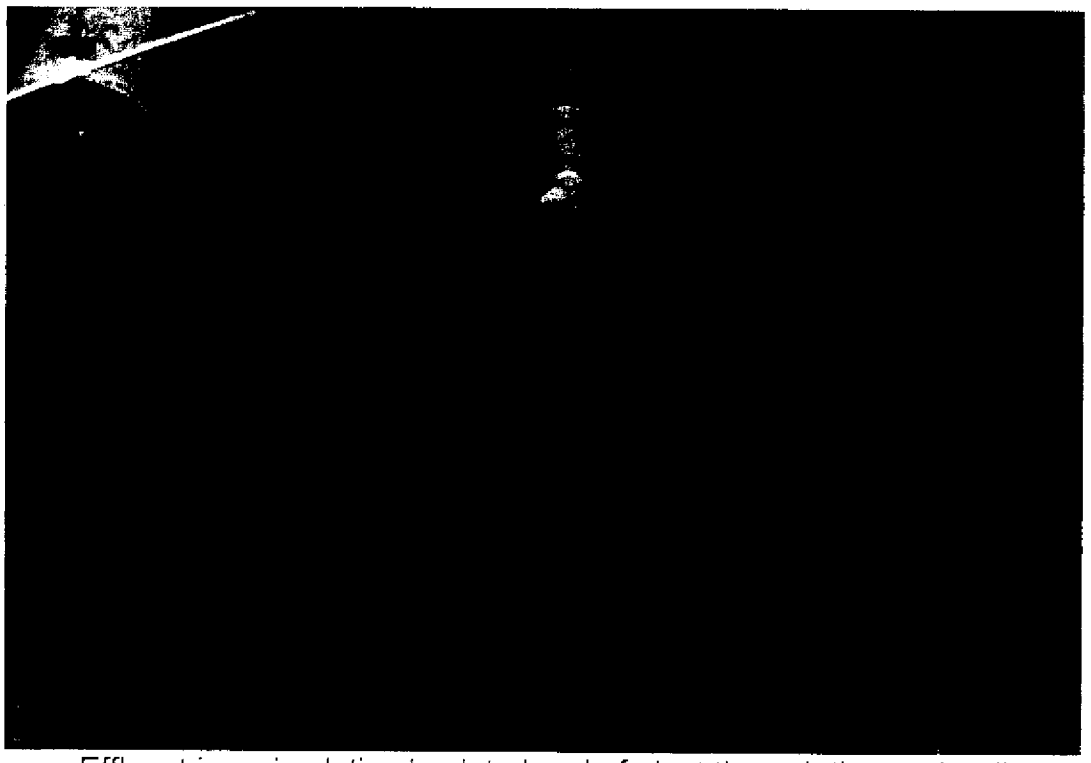
cc: Lori J. Barnes, Columbiana County Health Dept.
Bert Dawson, P.E., Columbiana County Engineer
Chuck Weber, Columbiana County Engineers
Troy Graft, P.E., P.S., Columbiana County Engineers
Columbiana County Commissioners

File: Public/Permit Compliance/Columbiana County/Beaver Local WWTP

Beaver Local WWTP Inspection Photo's



Rapid Sand Filter is blinded by solids carry-over



Effluent is recirculating back to head of plant through the mud well

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	July 2009	Total Suspended Solids	7D Conc	18	24.	7/22/2009
3PB00070*AD	July 2009	CBOD 5 day	30D Conc	10	12.5725	7/1/2009
3PB00070*AD	July 2009	CBOD 5 day	7D Conc	15	16.5	7/8/2009
3PB00070*AD	July 2009	CBOD 5 day	7D Conc	15	21.8	7/22/2009
3PB00070*AD	July 2009	Phosphorus, Total (P)	30D Conc	1.0	2.74	7/1/2009
3PB00070*AD	July 2009	Phosphorus, Total (P)	7D Conc	1.5	2.74	7/1/2009
3PB00070*AD	January 2011	Total Suspended Solids	30D Conc	12	13.625	1/1/2011
3PB00070*AD	January 2011	Total Suspended Solids	7D Conc	18	23.	1/8/2011
3PB00070*AD	January 2011	Nitrogen, Ammonia (NH3)	30D Conc	3.0	8.475	1/1/2011
3PB00070*AD	January 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.05	1/1/2011
3PB00070*AD	January 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	9.9	1/15/2011
3PB00070*AD	January 2011	pH	1D Conc	6.5	6.39	1/4/2011
3PB00070*AD	April 2010	Nitrogen, Ammonia (NH3)	30D Conc	3.0	5.535	4/1/2010
3PB00070*AD	April 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	4.68	4/1/2010
3PB00070*AD	April 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	6.39	4/15/2010
3PB00070*AD	April 2010	Phosphorus, Total (P)	30D Conc	1.0	2.36	4/1/2010
3PB00070*AD	April 2010	Phosphorus, Total (P)	7D Conc	1.5	2.36	4/22/2010
3PB00070*AD	April 2010	pH	1D Conc	6.5	5.74	4/6/2010
3PB00070*AD	April 2010	pH	1D Conc	6.5	5.56	4/13/2010
3PB00070*AD	April 2010	pH	1D Conc	6.5	5.47	4/20/2010
3PB00070*AD	April 2010	pH	1D Conc	6.5	5.67	4/27/2010
3PB00070*AD	August 2009	Phosphorus, Total (P)	30D Conc	1.0	2.92	8/1/2009
3PB00070*AD	August 2009	Phosphorus, Total (P)	7D Conc	1.5	2.92	8/1/2009
3PB00070*AD	August 2009	Dissolved Oxygen	1D Conc	6.0	5.8	8/18/2009
3PB00070*AD	September 2009	Phosphorus, Total (P)	30D Conc	1.0	2.78	9/1/2009
3PB00070*AD	September 2009	Phosphorus, Total (P)	7D Conc	1.5	3.48	9/1/2009
3PB00070*AD	September 2009	Phosphorus, Total (P)	7D Conc	1.5	2.48	9/8/2009
3PB00070*AD	September 2009	Phosphorus, Total (P)	7D Conc	1.5	2.3	9/15/2009
3PB00070*AD	September 2009	Phosphorus, Total (P)	7D Conc	1.5	2.86	9/22/2009
3PB00070*AD	September 2009	pH	1D Conc	6.5	6.37	9/1/2009
3PB00070*AD	September 2009	pH	1D Conc	6.5	6.49	9/8/2009
3PB00070*AD	September 2009	pH	1D Conc	6.5	6.18	9/15/2009
3PB00070*AD	September 2009	pH	1D Conc	6.5	5.75	9/22/2009
3PB00070*AD	February 2011	Nitrogen, Ammonia (NH3)	30D Conc	3.0	7.835	2/1/2011
3PB00070*AD	February 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	4.97	2/8/2011
3PB00070*AD	February 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	10.7	2/22/2011
3PB00070*AD	February 2011	pH	1D Conc	6.5	6.02	2/22/2011
3PB00070*AD	August 2010	Total Suspended Solids	30D Conc	12	37.625	8/1/2010
3PB00070*AD	August 2010	Total Suspended Solids	7D Conc	18	40.	8/1/2010
3PB00070*AD	August 2010	Total Suspended Solids	7D Conc	18	45.	8/8/2010
3PB00070*AD	August 2010	Total Suspended Solids	7D Conc	18	25.5	8/15/2010
3PB00070*AD	August 2010	Total Suspended Solids	7D Conc	18	40.	8/22/2010
3PB00070*AD	August 2010	Phosphorus, Total (P)	30D Conc	1.0	2.52	8/1/2010

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	August 2010	Phosphorus, Total (P)	7D Conc	1.5	2.52	8/22/2010
3PB00070*AD	August 2010	pH	1D Conc	6.5	3.93	8/3/2010
3PB00070*AD	August 2010	pH	1D Conc	6.5	4.55	8/10/2010
3PB00070*AD	August 2010	pH	1D Conc	6.5	3.62	8/17/2010
3PB00070*AD	August 2010	pH	1D Conc	6.5	3.59	8/24/2010
3PB00070*AD	June 2010	Total Suspended Solids	30D Conc	12	17.875	6/1/2010
3PB00070*AD	June 2010	Total Suspended Solids	7D Conc	18	21.5	6/1/2010
3PB00070*AD	June 2010	Total Suspended Solids	7D Conc	18	31.5	6/8/2010
3PB00070*AD	June 2010	CBOD 5 day	30D Conc	10	10.2175	6/1/2010
3PB00070*AD	June 2010	Phosphorus, Total (P)	30D Conc	1.0	1.92	6/1/2010
3PB00070*AD	June 2010	Phosphorus, Total (P)	7D Conc	1.5	1.92	6/8/2010
3PB00070*AD	June 2010	pH	1D Conc	6.5	3.78	6/2/2010
3PB00070*AD	June 2010	pH	1D Conc	6.5	5.65	6/22/2010
3PB00070*AD	April 2009	Total Suspended Solids	30D Conc	12	13.875	4/1/2009
3PB00070*AD	April 2009	Nitrogen, Ammonia (NH3)	30D Conc	3.0	8.45	4/1/2009
3PB00070*AD	April 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	10.1	4/1/2009
3PB00070*AD	April 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	8.67	4/8/2009
3PB00070*AD	April 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	6.59	4/15/2009
3PB00070*AD	April 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	8.44	4/22/2009
3PB00070*AD	April 2009	CBOD 5 day	30D Conc	10	15.1325	4/1/2009
3PB00070*AD	April 2009	CBOD 5 day	7D Conc	15	16.	4/1/2009
3PB00070*AD	April 2009	CBOD 5 day	7D Conc	15	15.13	4/15/2009
3PB00070*AD	April 2009	CBOD 5 day	7D Conc	15	17.9	4/22/2009
3PB00070*AD	April 2009	Phosphorus, Total (P)	30D Conc	1.0	2.905	4/1/2009
3PB00070*AD	April 2009	Phosphorus, Total (P)	7D Conc	1.5	2.96	4/1/2009
3PB00070*AD	April 2009	Phosphorus, Total (P)	7D Conc	1.5	2.66	4/8/2009
3PB00070*AD	April 2009	Phosphorus, Total (P)	7D Conc	1.5	3.22	4/15/2009
3PB00070*AD	April 2009	Phosphorus, Total (P)	7D Conc	1.5	2.78	4/22/2009
3PB00070*AD	April 2009	pH	1D Conc	6.5	6.35	4/21/2009
3PB00070*AD	April 2009	pH	1D Conc	6.5	6.47	4/28/2009
3PB00070*AD	June 2009	Total Suspended Solids	30D Conc	12	46.5	6/1/2009
3PB00070*AD	June 2009	Total Suspended Solids	7D Conc	18	42.	6/1/2009
3PB00070*AD	June 2009	Total Suspended Solids	7D Conc	18	88.	6/8/2009
3PB00070*AD	June 2009	Total Suspended Solids	7D Conc	18	32.	6/15/2009
3PB00070*AD	June 2009	Total Suspended Solids	7D Conc	18	24.	6/22/2009
3PB00070*AD	June 2009	Nitrogen, Ammonia (NH3)	30D Conc	1.0	3.43	6/1/2009
3PB00070*AD	June 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	5.47	6/8/2009
3PB00070*AD	June 2009	CBOD 5 day	30D Conc	10	12.51	6/1/2009
3PB00070*AD	June 2009	CBOD 5 day	7D Conc	15	17.9	6/1/2009
3PB00070*AD	June 2009	CBOD 5 day	7D Conc	15	16.8	6/8/2009
3PB00070*AD	June 2009	Phosphorus, Total (P)	30D Conc	1.0	2.96	6/1/2009
3PB00070*AD	June 2009	Phosphorus, Total (P)	7D Conc	1.5	2.96	6/1/2009
3PB00070*AD	June 2009	pH	1D Conc	6.5	6.37	6/9/2009

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	June 2009	pH	1D Conc	6.5	6.37	6/23/2009
3PB00070*AD	July 2010	Total Suspended Solids	30D Conc	12	20.875	7/1/2010
3PB00070*AD	July 2010	Total Suspended Solids	7D Conc	18	32.	7/15/2010
3PB00070*AD	July 2010	Total Suspended Solids	7D Conc	18	31.	7/22/2010
3PB00070*AD	July 2010	CBOD 5 day	30D Conc	10	14.405	7/1/2010
3PB00070*AD	July 2010	CBOD 5 day	7D Conc	15	16.74	7/8/2010
3PB00070*AD	July 2010	CBOD 5 day	7D Conc	15	21.79	7/15/2010
3PB00070*AD	July 2010	Phosphorus, Total (P)	30D Conc	1.0	2.6	7/1/2010
3PB00070*AD	July 2010	Phosphorus, Total (P)	7D Conc	1.5	2.6	7/15/2010
3PB00070*AD	July 2010	pH	1D Conc	6.5	4.8	7/6/2010
3PB00070*AD	July 2010	pH	1D Conc	6.5	4.47	7/13/2010
3PB00070*AD	July 2010	pH	1D Conc	6.5	4.27	7/20/2010
3PB00070*AD	July 2010	pH	1D Conc	6.5	4.51	7/28/2010
3PB00070*AD	January 2010	Nitrogen, Ammonia (NH3)	30D Conc	3.0	13.495	1/1/2010
3PB00070*AD	January 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	20.7	1/1/2010
3PB00070*AD	January 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	17.5	1/8/2010
3PB00070*AD	January 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	11.8	1/15/2010
3PB00070*AD	January 2010	Phosphorus, Total (P)	30D Conc	1.0	1.05	1/1/2010
3PB00070*AD	October 2009	Total Suspended Solids	30D Conc	12	16.25	10/1/2009
3PB00070*AD	October 2009	Total Suspended Solids	7D Conc	18	20.	10/1/2009
3PB00070*AD	October 2009	Total Suspended Solids	7D Conc	18	20.5	10/8/2009
3PB00070*AD	October 2009	Total Suspended Solids	7D Conc	18	19.	10/15/2009
3PB00070*AD	October 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	1.74	10/1/2009
3PB00070*AD	October 2009	Phosphorus, Total (P)	30D Conc	1.0	2.8	10/1/2009
3PB00070*AD	October 2009	Phosphorus, Total (P)	7D Conc	1.5	2.8	10/1/2009
3PB00070*AD	October 2009	pH	1D Conc	6.5	5.03	10/6/2009
3PB00070*AD	October 2009	pH	1D Conc	6.5	4.43	10/13/2009
3PB00070*AD	October 2009	pH	1D Conc	6.5	5.84	10/20/2009
3PB00070*AD	October 2009	pH	1D Conc	6.5	5.28	10/27/2009
3PB00070*AD	November 2009	Phosphorus, Total (P)	30D Conc	1.0	2.58	11/1/2009
3PB00070*AD	November 2009	Phosphorus, Total (P)	7D Conc	1.5	2.58	11/1/2009
3PB00070*AD	November 2009	pH	1D Conc	6.5	5.55	11/3/2009
3PB00070*AD	November 2009	pH	1D Conc	6.5	4.86	11/10/2009
3PB00070*AD	November 2009	pH	1D Conc	6.5	4.53	11/17/2009
3PB00070*AD	November 2009	pH	1D Conc	6.5	4.77	11/24/2009
3PB00070*AD	February 2010	Total Suspended Solids	30D Conc	12	14.625	2/1/2010
3PB00070*AD	February 2010	Total Suspended Solids	7D Conc	18	31.5	2/8/2010
3PB00070*AD	February 2010	Nitrogen, Ammonia (NH3)	30D Conc	3.0	13.3525	2/1/2010
3PB00070*AD	February 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	17.3	2/1/2010
3PB00070*AD	February 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	20.6	2/8/2010
3PB00070*AD	February 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.93	2/15/2010
3PB00070*AD	February 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.58	2/22/2010
3PB00070*AD	February 2010	CBOD 5 day	30D Conc	10	13.9733	2/1/2010

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	February 2010	CBOD 5 day	7D Conc	15	25.75	2/8/2010
3PB00070*AD	February 2010	Phosphorus, Total (P)	30D Conc	1.0	2.26	2/1/2010
3PB00070*AD	February 2010	Phosphorus, Total (P)	7D Conc	1.5	2.26	2/1/2010
3PB00070*AD	February 2010	pH	1D Conc	6.5	6.42	2/16/2010
3PB00070*AD	February 2010	pH	1D Conc	6.5	6.12	2/23/2010
3PB00070*AD	December 2010	Nitrogen, Ammonia (NH3)	30D Conc	3.0	9.49	12/1/2010
3PB00070*AD	December 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.08	12/1/2010
3PB00070*AD	December 2010	Nitrogen, Ammonia (NH3)	7D Conc	4.5	11.9	12/15/2010
3PB00070*AD	March 2010	Total Suspended Solids	30D Conc	12	18.2	3/1/2010
3PB00070*AD	March 2010	Total Suspended Solids	7D Conc	18	50.	3/22/2010
3PB00070*AD	March 2010	Total Suspended Solids	7D Qty	6.82	14.383	3/22/2010
3PB00070*AD	March 2010	pH	1D Conc	6.5	5.76	3/2/2010
3PB00070*AD	March 2010	pH	1D Conc	6.5	5.99	3/9/2010
3PB00070*AD	March 2010	pH	1D Conc	6.5	6.44	3/16/2010
3PB00070*AD	March 2010	pH	1D Conc	6.5	5.88	3/23/2010
3PB00070*AD	March 2010	pH	1D Conc	6.5	5.75	3/30/2010
3PB00070*AD	October 2010	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.51	10/1/2010
3PB00070*AD	October 2010	Nitrogen, Ammonia (NH3)	7D Conc	1.5	2.13	10/22/2010
3PB00070*AD	October 2010	Phosphorus, Total (P)	30D Conc	1.0	2.4	10/1/2010
3PB00070*AD	October 2010	Phosphorus, Total (P)	7D Conc	1.5	2.4	10/1/2010
3PB00070*AD	October 2010	pH	1D Conc	6.5	3.72	10/5/2010
3PB00070*AD	October 2010	pH	1D Conc	6.5	4.05	10/12/2010
3PB00070*AD	October 2010	pH	1D Conc	6.5	6.07	10/19/2010
3PB00070*AD	October 2010	pH	1D Conc	6.5	4.89	10/26/2010
3PB00070*AD	May 2010	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.9	5/1/2010
3PB00070*AD	May 2010	Nitrogen, Ammonia (NH3)	7D Conc	1.5	7.09	5/1/2010
3PB00070*AD	May 2010	Nitrogen, Ammonia (NH3)	7D Conc	1.5	2.73	5/15/2010
3PB00070*AD	May 2010	CBOD 5 day	30D Conc	10	10.0875	5/1/2010
3PB00070*AD	May 2010	Phosphorus, Total (P)	30D Conc	1.0	2.02	5/1/2010
3PB00070*AD	May 2010	Phosphorus, Total (P)	7D Conc	1.5	2.02	5/15/2010
3PB00070*AD	May 2010	pH	1D Conc	6.5	4.93	5/11/2010
3PB00070*AD	May 2010	pH	1D Conc	6.5	6.29	5/18/2010
3PB00070*AD	May 2010	pH	1D Conc	6.5	5.58	5/25/2010
3PB00070*AD	March 2009	Total Suspended Solids	30D Conc	12	15.8333	3/1/2009
3PB00070*AD	March 2009	Total Suspended Solids	7D Conc	18	35.5	3/15/2009
3PB00070*AD	March 2009	Nitrogen, Ammonia (NH3)	30D Conc	3.0	37.7333	3/1/2009
3PB00070*AD	March 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	50.7	3/15/2009
3PB00070*AD	March 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	41.9	3/22/2009
3PB00070*AD	March 2009	CBOD 5 day	30D Conc	10	12.26	3/1/2009
3PB00070*AD	March 2009	Phosphorus, Total (P)	30D Conc	1.0	2.34	3/1/2009
3PB00070*AD	March 2009	Phosphorus, Total (P)	7D Conc	1.5	1.7	3/15/2009
3PB00070*AD	March 2009	Phosphorus, Total (P)	7D Conc	1.5	2.74	3/22/2009
3PB00070*AD	September 2010	Nitrogen, Ammonia (NH3)	30D Conc	1.0	4.08	9/1/2010

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	September 2010	Nitrogen, Ammonia (NH3)	7D Conc	1.5	8.	9/1/2010
3PB00070*AD	September 2010	Nitrogen, Ammonia (NH3)	7D Conc	1.5	3.96	9/15/2010
3PB00070*AD	September 2010	Phosphorus, Total (P)	30D Conc	1.0	2.66	9/1/2010
3PB00070*AD	September 2010	Phosphorus, Total (P)	7D Conc	1.5	2.66	9/1/2010
3PB00070*AD	September 2010	pH	1D Conc	6.5	6.3	9/7/2010
3PB00070*AD	September 2010	pH	1D Conc	6.5	5.3	9/21/2010
3PB00070*AD	September 2010	pH	1D Conc	6.5	3.64	9/28/2010
3PB00070*AD	November 2010	Total Suspended Solids	30D Conc	12	18.75	11/1/2010
3PB00070*AD	November 2010	Total Suspended Solids	7D Conc	18	22.	11/8/2010
3PB00070*AD	November 2010	Total Suspended Solids	7D Conc	18	22.	11/15/2010
3PB00070*AD	November 2010	Total Suspended Solids	7D Conc	18	19.	11/22/2010
3PB00070*AD	November 2010	CBOD 5 day	7D Conc	15	18.5	11/15/2010
3PB00070*AD	November 2010	Phosphorus, Total (P)	30D Conc	1.0	2.7	11/1/2010
3PB00070*AD	November 2010	Phosphorus, Total (P)	7D Conc	1.5	2.7	11/1/2010
3PB00070*AD	November 2010	pH	1D Conc	6.5	4.26	11/2/2010
3PB00070*AD	November 2010	pH	1D Conc	6.5	5.55	11/9/2010
3PB00070*AD	November 2010	pH	1D Conc	6.5	5.66	11/16/2010
3PB00070*AD	November 2010	pH	1D Conc	6.5	4.32	11/23/2010
3PB00070*AD	December 2009	Total Suspended Solids	30D Conc	12	12.5	12/1/2009
3PB00070*AD	December 2009	Nitrogen, Ammonia (NH3)	30D Conc	3.0	12.15	12/1/2009
3PB00070*AD	December 2009	Nitrogen, Ammonia (NH3)	7D Conc	4.5	21.7	12/22/2009
3PB00070*AD	December 2009	Phosphorus, Total (P)	30D Conc	1.0	2.26	12/1/2009
3PB00070*AD	December 2009	Phosphorus, Total (P)	7D Conc	1.5	2.26	12/15/2009
3PB00070*AD	December 2009	pH	1D Conc	6.5	5.2	12/1/2009
3PB00070*AD	December 2009	pH	1D Conc	6.5	5.56	12/8/2009
3PB00070*AD	May 2009	Total Suspended Solids	30D Conc	12	27.875	5/1/2009
3PB00070*AD	May 2009	Total Suspended Solids	7D Conc	18	21.	5/1/2009
3PB00070*AD	May 2009	Total Suspended Solids	7D Conc	18	27.	5/8/2009
3PB00070*AD	May 2009	Total Suspended Solids	7D Conc	18	29.	5/15/2009
3PB00070*AD	May 2009	Total Suspended Solids	7D Conc	18	34.5	5/22/2009
3PB00070*AD	May 2009	Nitrogen, Ammonia (NH3)	30D Conc	1.0	8.915	5/1/2009
3PB00070*AD	May 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	11.3	5/1/2009
3PB00070*AD	May 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	9.05	5/8/2009
3PB00070*AD	May 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	7.89	5/15/2009
3PB00070*AD	May 2009	Nitrogen, Ammonia (NH3)	7D Conc	1.5	7.42	5/22/2009
3PB00070*AD	May 2009	CBOD 5 day	30D Conc	10	23.275	5/1/2009
3PB00070*AD	May 2009	CBOD 5 day	7D Conc	15	17.8	5/1/2009
3PB00070*AD	May 2009	CBOD 5 day	7D Conc	15	21.9	5/8/2009
3PB00070*AD	May 2009	CBOD 5 day	7D Conc	15	16.4	5/15/2009
3PB00070*AD	May 2009	CBOD 5 day	7D Conc	15	37.	5/22/2009
3PB00070*AD	May 2009	Phosphorus, Total (P)	30D Conc	1.0	2.5625	5/1/2009
3PB00070*AD	May 2009	Phosphorus, Total (P)	7D Conc	1.5	1.57	5/1/2009
3PB00070*AD	May 2009	Phosphorus, Total (P)	7D Conc	1.5	2.34	5/8/2009

Columbiana Co. Beaver Local WWTP Effluent Violations: June 2008 - April 2011

Permit No	Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00070*AD	May 2009	Phosphorus, Total (P)	7D Conc	1.5	2.84	5/15/2009
3PB00070*AD	May 2009	Phosphorus, Total (P)	7D Conc	1.5	3.5	5/22/2009
3PB00070*AD	May 2009	pH	1D Conc	6.5	6.36	5/26/2009
3PB00070*AD	April 2011	Total Suspended Solids	30D Conc	12	22.5	4/1/2011
3PB00070*AD	April 2011	Total Suspended Solids	7D Conc	18	31.	4/1/2011
3PB00070*AD	April 2011	Total Suspended Solids	7D Conc	18	28.5	4/15/2011
3PB00070*AD	April 2011	Total Suspended Solids	7D Conc	18	22.5	4/22/2011
3PB00070*AD	April 2011	Total Suspended Solids	7D Qty	6.82	8.33079	4/1/2011
3PB00070*AD	April 2011	Nitrogen, Ammonia (NH3)	30D Conc	3.0	26.25	4/1/2011
3PB00070*AD	April 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	41.8	4/1/2011
3PB00070*AD	April 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	10.7	4/15/2011
3PB00070*AD	April 2011	Nitrogen, Ammonia (NH3)	30D Qty	1.14	6.10256	4/1/2011
3PB00070*AD	April 2011	Nitrogen, Ammonia (NH3)	7D Qty	1.71	11.2331	4/1/2011
3PB00070*AD	April 2011	CBOD 5 day	30D Conc	10	15.8175	4/1/2011
3PB00070*AD	April 2011	CBOD 5 day	7D Conc	15	26.4	4/1/2011
3PB00070*AD	April 2011	CBOD 5 day	7D Conc	15	23.8	4/15/2011
3PB00070*AD	April 2011	CBOD 5 day	7D Qty	5.68	7.0946	4/1/2011
3PB00070*AD	March 2011	Total Suspended Solids	30D Conc	12	17.625	3/1/2011
3PB00070*AD	March 2011	Total Suspended Solids	7D Conc	18	39.5	3/1/2011
3PB00070*AD	March 2011	Nitrogen, Ammonia (NH3)	30D Conc	3.0	4.185	3/1/2011
3PB00070*AD	March 2011	Nitrogen, Ammonia (NH3)	7D Conc	4.5	5.7	3/15/2011
3PB00070*AD	March 2011	CBOD 5 day	30D Conc	10	23.925	3/1/2011
3PB00070*AD	March 2011	CBOD 5 day	7D Conc	15	24.2	3/1/2011
3PB00070*AD	March 2011	CBOD 5 day	7D Conc	15	26.	3/8/2011
3PB00070*AD	March 2011	CBOD 5 day	7D Conc	15	24.8	3/15/2011
3PB00070*AD	March 2011	CBOD 5 day	7D Conc	15	20.7	3/22/2011