



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

Re: Ashland County
Black River Local Schools WWTP
NPDES Permit

August 3, 2010

Ms. Janice Wyckoff, Superintendent
Black River Local Schools
257 County Road 40
Sullivan, Ohio 44880

Dear Ms. Wyckoff:

On July 20, 2010, an inspection was made of the wastewater treatment facilities serving the Black River Local Schools. At the time of the inspection all of the major treatment units were in operation. A clear final effluent was being discharged to the receiving stream. A few concerns were noted with the treatment plant as follows.

One of the blowers on the new aeration plant needs to have the belts reinstalled as there were none present. The weirs in the clarifier and upflow clarifier tanks need to be cleaned. The weirs have a very heavy buildup of algae along them which can adversely affect the flow across them. The western upflow clarifier had no decking media in it. This deck material is essential to the proper function of this tank. The decking needs to be replaced immediately. There was a small pile of dried sludge along the eastern wall of the sand filters. This material should be hauled out within the next 30 days. The post aeration air supply line still has not been repaired. This problem was noted during our inspection in September 2009. This supply line should be repaired immediately.

A review of the discharge monitoring reports submitted for the months of August 2009 through June 2010 revealed numerous **violations** of the limits contained in your NPDES permit. A printout of these violations has been enclosed for your review.

Our completed inspection report has been enclosed for your review. You will need to contact our office once the post aeration supply line and upflow media decking have been replaced. Both of these items shall be completed within the next 30 days. If you have any questions please call me at 419-373-3070.

Sincerely,

Walter Ariss
Environmental Specialist II
Division of Surface Water

/cs

Enclosure

pc: **NWDO-DSW-File**
Mike Logsdon, Eastwood Environmental, Inc. w/enclosure

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2 PT00015

Facility Name Black River Schools Expiration Date 11/30/2011

Facility Address 257 CR 40 Date 7/20/10 Time 10:30 am pm

City Sullivan County Ashtland Township Sullivan

Name and Address of Owner _____

Person Contacted _____ Owner Phone _____

Flow: Design 25,000 GPD Present 10,000 GPD (metered estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 75° 54°

OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: unnamed trib Black River

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	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) _____

Disinfection: (Required May 1 thru Oct.31.)	
IN	OUT
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____
_____	_____

Chlorination Tablets
 Dechlorination Tablets
 U.V.

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: NH₃, TSS, BOD

Chronic Violations _____

5. Adequate plant safety

6. Operation and Maintenance Service Name Eastwood Environmental

Frequency of Visits Week

Facility Name: Black River Schools

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	<input checked="" type="checkbox"/>	Trash Trap	Pumping Frequency: ?
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	<input checked="" type="checkbox"/>	Flow Equalization	heavy foam & suds
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N	Cycle Time:
	<input checked="" type="checkbox"/>	Motor/ Blower Unit <i>running</i>	one of the newer blowers needs to have belts replaced
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: good color Adequate Aeration: <u>Y</u> <input checked="" type="checkbox"/> N
Final Settling	<input checked="" type="checkbox"/>	Clarifier	good clarity/weir needs to be cleaned
	<input checked="" type="checkbox"/>	Sludge Return	In <input checked="" type="checkbox"/> Out
	<input checked="" type="checkbox"/>	Surface Skimmer	In <input checked="" type="checkbox"/> Out
	<input checked="" type="checkbox"/>	Fixed Media Clarifier	Western side has no media both weirs need cleaned
Tertiary Treatment	<input checked="" type="checkbox"/>	Surface Sand Filter	Filters relatively clean Dried sludge needs hauled out
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	okay
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder	okay
		Ultraviolet (UV)	
Flow Metering	<input checked="" type="checkbox"/>	Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	<input checked="" type="checkbox"/>	Raw Wastewater (type) Flow EQ	okay
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	okay
Sludge Handling	<input checked="" type="checkbox"/>	Aerated Storage Tank	okay
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
	<input checked="" type="checkbox"/>	Landfill	
		Land Application	
Advanced Treatment	<input checked="" type="checkbox"/>	Post Aeration	still need to repair air supply
		Spray Irrigation	
		Other	

Get New Data

Black River Schools NPDES permit limit violations August 2009 through June 2010

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00015*CD	September 2009	001	00530	Total Suspended Solids	30D Conc	12	21.75	9/1/2009
2PT00015*CD	September 2009	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.19	9/1/2009
2PT00015*CD	September 2009	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	2.28	9/3/2009
2PT00015*CD	September 2009	001	00530	Total Suspended Solids	1D Conc	18	69.	9/10/2009
2PT00015*CD	September 2009	001	00530	Total Suspended Solids	1D Qty	1.70	2.61165	9/10/2009
2PT00015*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	10.61	2/1/2010
2PT00015*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.28	.40159	2/1/2010
2PT00015*CD	February 2010	001	80082	CBOD 5 day	30D Conc	10	12.6666	2/1/2010
2PT00015*CD	February 2010	001	00530	Total Suspended Solids	1D Conc	18	26.	2/4/2010
2PT00015*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	21.	2/4/2010
2PT00015*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.43	.79485	2/4/2010
2PT00015*CD	February 2010	001	80082	CBOD 5 day	1D Conc	15	31.	2/4/2010
2PT00015*CD	March 2010	001	80082	CBOD 5 day	1D Conc	15	19.	3/26/2010
2PT00015*CD	May 2010	001	00530	Total Suspended Solids	30D Conc	12	26.75	5/1/2010
2PT00015*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	5.375	5/1/2010
2PT00015*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.09	.20344	5/1/2010
2PT00015*CD	May 2010	001	80082	CBOD 5 day	30D Conc	10	12.25	5/1/2010
2PT00015*CD	May 2010	001	00530	Total Suspended Solids	1D Conc	18	20.	5/3/2010
2PT00015*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	2.7	5/3/2010
2PT00015*CD	May 2010	001	80082	CBOD 5 day	1D Conc	15	31.	5/3/2010
2PT00015*CD	May 2010	001	00530	Total Suspended Solids	1D Conc	18	27.	5/20/2010
2PT00015*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	8.05	5/20/2010
2PT00015*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.14	.30469	5/20/2010
2PT00015*CD	May 2010	001	00400	pH	1D Conc	6.5	4.3	5/20/2010
2PT00015*CD	May 2010	001	00530	Total Suspended Solids	1D Conc	18	51.	5/27/2010
2PT00015*CD	May 2010	001	00530	Total Suspended Solids	1D Qty	1.70	1.93035	5/27/2010
2PT00015*CD	May 2010	001	00400	pH	1D Conc	6.5	4.3	5/27/2010
2PT00015*CD	June 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.98	6/1/2010
2PT00015*CD	June 2010	001	00530	Total Suspended Solids	1D Conc	18	27.	6/3/2010
2PT00015*CD	June 2010	001	00400	pH	1D Conc	6.5	6.1	6/3/2010
2PT00015*CD	June 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	3.78	6/10/2010
2PT00015*CD	June 2010	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.14	.14307	6/10/2010