



Environmental
Protection Agency

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

Re: Ashland County
Black River Local Schools WWTP
NPDES Permit
Notice of Violation

February 17, 2011

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

Dear Superintendent Wyckoff:

On February 4, 2011, 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. Several concerns were noted with the treatment plant as follows.

The blower motor in the old aeration plant was squeaking excessively. This squeak should be investigated as it could be a sign that the motor requires maintenance. The level of the water in the new aeration plant clarifier was several inches below the bottom of the weir trough. The water level is typically even with the top of the weir teeth. During a follow up call with Eastwood Environmental, your certified operator, Mr. Derrick Chennault indicated that the cause of the low clarifier level was a partially plugged transfer line that was cleared on February 11.

During the inspection it was observed that the western sand filter bed was almost full of water to the point of overflowing the walls. The eastern filter bed was empty except for a thin layer of snow on the surface of the filter. The flow to the sand filters should be switched to the eastern sand bed. Upon further investigation, it was determined that the western sand filter bed was leaking in the northwest corner. Water was evident leaking from around the plate in the corner of the concrete walls. This situation has been occurring for quite some time as the water has carved a path through the snow to the creek bed. The source of the leak should be investigated and corrected. I have included pictures of the sand filter wall for your reference. Our office is gravely concerned with the condition of the treatment plant as observed during our recent inspections.

Janice Wyckoff, Superintendent
February 17, 2011
Page 2

A review of the operators log book revealed that a person with the initials PMT had visited the treatment plant on the 4th prior to the inspection. The only notes in the log for the 4th were that samples were collected and checks were made. There is no mention of any of the concerns noted above or any efforts made to correct the condition of the treatment plant. It was noted that no entries had been made in the log for the first three days of February. Please be aware that your NPDES permit requires daily entries into the log for several parameters. O.A.C. Chapter 3745-7-09 requires that, at a minimum the previous three months worth of data be contained in the onsite log. Only the February log was onsite. The certified operator shall make the previous three months of the log available onsite for review and inspection.

A review of the discharge monitoring reports submitted for the months of July through December 2010, revealed numerous **violations** of the limits contained in your NPDES permit. A printout of these **violations** has been enclosed for your review. Your facility is currently considered to be in **significant non-compliance** for the six (6) month period of July through December 2010. Our office is obligated to take action in order to regain compliance with the NPDES permit. We will begin drafting Director's Final Findings and Orders (DFFOs) binding you to attain compliance with your NPDES permit within a specified time frame. Our office is requesting a meeting with you to discuss these DFFOs and your approach to attain compliance. Please contact our office **within 14 days** of receipt of this letter to arrange this meeting.

Our completed inspection report has been enclosed for your review. If you have any questions please call me at 419-373-3070.

Sincerely,



Walter Ariss
Environmental Specialist II
Division of Surface Water

//lr

Enclosure

pc: \ DSW-NWDO 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. 2PT00015

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

Facility Address 257 CR 40 Date 2/4/11 Time 11:45 am

City Sullivan County Ashland Township _____

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 240 54N

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: unsamed trib to 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) sand beds leaking knicker level
low

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

Yes No

4. Compliance with NPDES Permit _____ Parameters: _____

Periodic Violations Y N
 Chronic Violations NH₃, TSS

5. Adequate plant safety

6. Operation and Maintenance Service Name Eastwood Environmental

Frequency of Visits 1/week

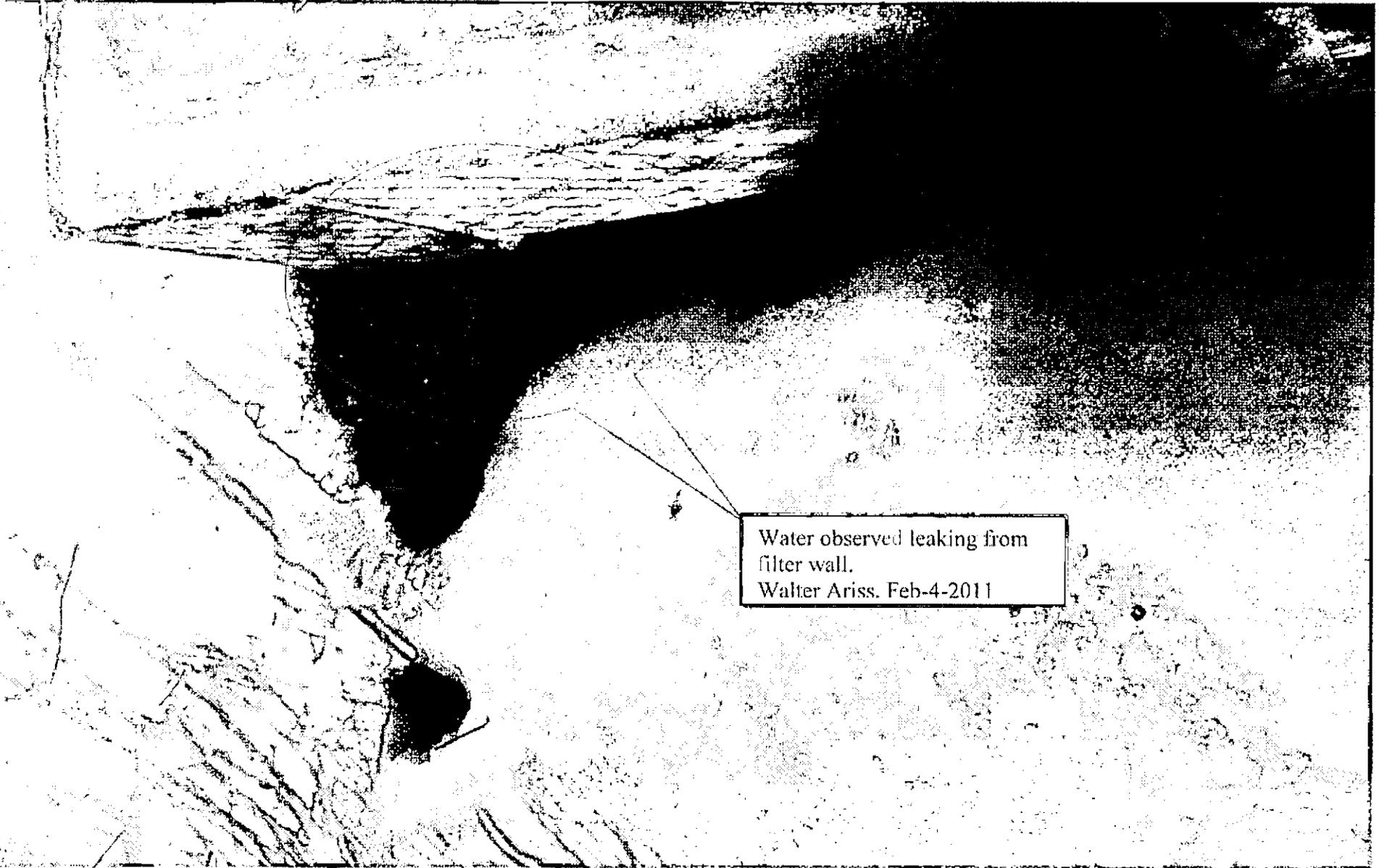
Facility Name: Black River Schools

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	okay
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N	Cycle Time: Blower on old plant has excessive squeaking
	<input checked="" type="checkbox"/>	Motor/ Blower Unit <i>running</i>	-new plant okay
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: old plant okay new plant okay Adequate Aeration: Y <input checked="" type="checkbox"/> N <u> </u>
Final Settling	<input checked="" type="checkbox"/>	Clarifier <i>Clarifier on old plant okay</i>	new plant clarifier level is several inches below weir trough - need to find out why
	<input checked="" type="checkbox"/>	Sludge Return <i>old plant okay</i>	In <input checked="" type="checkbox"/> Out <u> </u> <i>new plant RAS both running clear</i>
	<input checked="" type="checkbox"/>	Surface Skimmer	In <input checked="" type="checkbox"/> Out <u> </u>
	<input checked="" type="checkbox"/>	Fixed Media Clarifier	very turbid, ice cover on most of surface
Tertiary Treatment	<input checked="" type="checkbox"/>	Surface Sand Filter <i>cust bed empty - lite layer of snow</i>	west seal pondal + in use water flowing out of northwest corner
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	out
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder	out
		Ultraviolet (UV)	
Flow Metering <i>none</i>	<u> </u>	Elapsed Pump Time	need to replace meters on filter dosing
		Recorder (continuous total)	
Pumps	<input checked="" type="checkbox"/>	Raw Wastewater (type) <i>Raw Flow EQ</i>	okay
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	okay
Sludge Handling	<input checked="" type="checkbox"/>	Aerated Storage Tank	appears 3/4 full
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	<u> </u>	Post Aeration	unable to determine if not on - supply line required
		Spray Irrigation	
		Other	

Get New Data

Black River Local Schools NPDES Permit limit violations July through December 2010

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00015*CD	October 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	3.645	10/1/2010
2PT00015*CD	October 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.09	.13796	10/1/2010
2PT00015*CD	October 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	3.85	10/7/2010
2PT00015*CD	October 2010	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.14	.14572	10/7/2010
2PT00015*CD	October 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	3.44	10/21/2010
2PT00015*CD	October 2010	001	00400	pH	1D Conc	6.5	6.44	10/21/2010
2PT00015*CD	October 2010	001	00530	Total Suspended Solids	1D Conc	18	23.	10/28/2010
2PT00015*CD	November 2010	001	00400	pH	1D Conc	6.5	6.37	11/4/2010
2PT00015*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	5.285	12/1/2010
2PT00015*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.28	.36007	12/1/2010
2PT00015*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	10.57	12/21/2010
2PT00015*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.43	.72013	12/21/2010
2PT00015*CD	December 2010	001	00530	Total Suspended Solids	1D Conc	18	19.	12/28/2010



Water observed leaking from
filter wall.
Walter Ariss, Feb-4-2011