



Environmental
Protection Agency

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

Re: Ashland County
Mapleton Local Schools
NPDES Permit

February 14, 2011

Mr. John Marks, Superintendent
Mapleton School District
635 County Road 801, Route 3
Ashland, Ohio 44805

Dear Mr. Marks:

On February 4, 2011, an inspection was conducted of the wastewater treatment facilities serving the Mapleton Schools located at 635 County Road 801, Orange Township, Ashland County. At the time of the inspection the facility was operating in satisfactory condition. Mr. Dan Dennison of your staff was present to grant access to the plant as well as answer questions.

All major treatment units were in operation and appeared to be functioning correctly. A clear discharge was observed at the creek. During the inspection we again discussed the need to replace the grates over the equalization tank in the near future. The operator's log was reviewed and found to be acceptable. A minimum of three months worth of log sheets should be kept at the treatment plant.

A review of the discharge monitoring reports submitted to our office for the months of March 2010, through January 2011, revealed several **violations** of the limits contained in your NPDES permit. A printout of these violations 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

/llr

Enclosure

pc: ~~DSW#NWDO File w/enclosures~~
McGhee's Technical Water Services w/enclosures

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PT00040

Facility Name Mapleton Local Schools Expiration Date 11/31/2013

Facility Address 635 CR801 Date 2/4/11 Time 10:30 am pm

City Ashland County Ashland Township _____

Name and Address of Owner _____

Person Contacted Don Morrison Owner Phone _____

Flow: Design 2,100 GPD Present 1,000-6,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 20° sunny

OEPA Personnel Walter Ariss 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: Unnamed trib Jerome Fork

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: TSS, NH₃, CBOD

Chronic Violations _____

5. _____ Adequate plant safety

6. _____ Operation and Maintenance Service Name McGhee's TWSI

Frequency of Visits 1/week

Facility Name: Mapleton Local Schools

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	<input checked="" type="checkbox"/>	Trash Trap	Pumping Frequency: <i>since not often - only once or twice started</i>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	<input checked="" type="checkbox"/>	Flow Equalization	<i>okay - gates will need replaced soon</i>
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N	Cycle Time:
		Motor/ Blower Unit <i>running</i>	
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: <i>good color</i> Adequate Aeration: Y <input checked="" type="checkbox"/> N <u> </u>
Final Settling	<input checked="" type="checkbox"/>	Clarifier	<i>good clarity</i>
	<input checked="" type="checkbox"/>	Sludge Return	In <input checked="" type="checkbox"/> Out <u> </u>
	<input checked="" type="checkbox"/>	Surface Skimmer	In <input checked="" type="checkbox"/> Out <u> </u>
		Fixed Media Clarifier	
Tertiary Treatment	<input checked="" type="checkbox"/>	Surface Sand Filter	<i>Filters okay / west side in use very little snow or ice</i>
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	<i>out</i>
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder	<i>out</i>
		Ultraviolet (UV)	
Flow Metering	<input checked="" type="checkbox"/>	Elapsed Pump Time	<i>on influent station</i>
		Recorder (continuous total)	
Pumps	<input checked="" type="checkbox"/>	Raw Wastewater (type) <i>grinder</i>	<i>okay</i>
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	<i>okay</i>
Sludge Handling	<input checked="" type="checkbox"/>	Aerated Storage Tank	<i>okay</i>
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	<input checked="" type="checkbox"/>	Post Aeration	<i>or</i>
		Spray Irrigation	
		Other	

Get New Data

Mapleton Local Schools NPDES Permit limit violations March 2010 through January 2011

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00040*CD	March 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	18.9	3/1/2010
2PT00040*CD	March 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	18.9	3/1/2010
2PT00040*CD	March 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.25	.28615	3/1/2010
2PT00040*CD	April 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	22.6	4/1/2010
2PT00040*CD	April 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	22.6	4/1/2010
2PT00040*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	4.61	5/1/2010
2PT00040*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	4.61	5/1/2010
2PT00040*CD	May 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.08724	5/1/2010
2PT00040*CD	July 2010	001	00530	Total Suspended Solids	30D Conc	12	12.6	7/1/2010
2PT00040*CD	July 2010	001	31616	Fecal Coliform	7D Conc	2000	4900.	7/1/2010
2PT00040*CD	August 2010	001	00530	Total Suspended Solids	30D Conc	12	27.6	8/1/2010
2PT00040*CD	August 2010	001	00530	Total Suspended Solids	7D Conc	18	27.6	8/1/2010
2PT00040*CD	November 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	5.88	11/1/2010
2PT00040*CD	November 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.88	11/1/2010
2PT00040*CD	November 2010	001	00400	pH	1D Conc	6.5	5.3	11/2/2010
2PT00040*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	34.1	12/1/2010
2PT00040*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	34.1	12/1/2010
2PT00040*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.25	.38721	12/1/2010
2PT00040*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.38	.38721	12/1/2010
2PT00040*CD	January 2011	001	00530	Total Suspended Solids	30D Conc	12	92.	1/1/2011
2PT00040*CD	January 2011	001	00530	Total Suspended Solids	30D Qty	1.0	1.04466	1/1/2011
2PT00040*CD	January 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	38.	1/1/2011
2PT00040*CD	January 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.25	.43149	1/1/2011
2PT00040*CD	January 2011	001	80082	CBOD 5 day	30D Conc	10	26.4	1/1/2011
2PT00040*CD	January 2011	001	00530	Total Suspended Solids	7D Conc	18	92.	1/22/2011
2PT00040*CD	January 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	38.	1/22/2011
2PT00040*CD	January 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.38	.43149	1/22/2011
2PT00040*CD	January 2011	001	80082	CBOD 5 day	7D Conc	15	26.4	1/22/2011