



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

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

Re: Ashland County
Mapleton Local Schools
NPDES Permit

February 10, 2009

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

Dear Mr. Marks:

On January 29, 2009, an inspection was conducted of the wastewater treatment facilities serving the Mapleton Schools located at 635 C.R. 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. A clear discharge was observed at the creek.

During the inspection we recommended that the chlorine contact tank be pumped down and cleaned. The water in the tank had a slight brown color near the post aeration diffuser. This could indicate solids have carried over into the tank.

A review of the discharge monitoring reports submitted to our agency for the time period of September 2007 through December 2008 revealed numerous *violations* of the limits contained in your NPDES discharge permit. A printout of these *violations* is included for your review. Our office is concerned with the number of violations occurring at the treatment plant.

It is evident from these violations that aerating the trash trap has not greatly improved the treatment through the plant. The average flow through the plant is near 5000 gpd. The plant is sized to treat 22,100 gpd. This lack of flow may be severely, adversely impacting the treatment plant. We are requesting that the operator investigate the possibility of taking some of the aeration capacity offline in an effort to realign the treatment capacity with the actual wastewater flow. Please provide a written report to our office within 60 days summarizing the work that would be needed in order to accomplish the reduction in capacity.

If you have any questions please give me a call at 419-373-3070.

Sincerely,

Walter Ariss
Environmental Specialist II
Division of Surface Water
/csl
Enclosure

pc: DSW, NWDO File w/enc
McGhee's Technical Water Services w/enc.

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 1/31/2013

Facility Address 635 CR 801 Date 1/29/09 Time 11:30 am

City Ashland County Ashland Township Orange

Name and Address of Owner _____

Person Contacted Don Pennington Owner Phone _____

Flow: Design 22,100 GPD Present 5,000-7,000 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	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	Colorless
1	Mild						
2	Moderate	<input checked="" type="checkbox"/>	Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: unamed 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) underloaded

Disinfection: (Required May 1 thru Oct.31.)

IN	OUT	
_____	<input checked="" type="checkbox"/>	Chlorination Tablets
_____	<input checked="" type="checkbox"/>	Dechlorination Tablets
_____	_____	U.V.

not required in winter

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____
 Chronic Violations 0 0 NH₃, TSS, COD₅

5. Adequate plant safety

6. Operation and Maintenance Service Name McLachlan's TWST

Frequency of Visits 1/week

Facility Name: Maplebar Local School's

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	2	Trash Trap	Pumping Frequency: <i>when they haul sludge</i>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	2	Flow Equalization	<i>okay</i>
Aeration Equipment		Plant Timer <u>Y</u> <u>2</u> N	Cycle Time:
		Motor/ Blower Unit <i>(running)</i>	
Secondary Treatment	2	Aeration Tank	Color: <i>slightly weak</i> Adequate Aeration: <u>Y</u> <u>2</u> N
Final Settling	2	Clarifier	<i>fairly clear</i>
	2	Sludge Return	In <u>2</u> Out
	2	Surface Skimmer	In Out <u>2</u> <i>only on when operator at plant</i>
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	<i>look okay</i>
		Polishing Pond	
		Other	
Disinfection	2	Chlorine Tube Feeder	<i>no tablets required in winter</i>
	2	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering	2	Elapsed Pump Time	<i>on influent pump station</i>
		Recorder (continuous total)	
Pumps	2	Raw Wastewater (type)	<i>influent pump may be partially clogged</i>
	2	Sand Filter Effluent Dosing	<i>okay</i>
Sludge Handling	2	Aerated Storage Tank	<i>okay</i>
		Sludge Drying Bed	
Sludge Disposal	2	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	2	Post Aeration	<i>Chlorine tank had a slight brown color / recommend stop pumping out tank</i>
		Spray Irrigation	
		Other	

Mapleton Local Schools NPDES permit violations
 September 2007 through December 2008

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00040*BD	September 2007	001	00530	Total Suspended Solids	30D Conc	12	12.8	9/1/2007
2PT00040*BD	September 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	8.1	9/1/2007
2PT00040*BD	September 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	8.1	9/8/2007
2PT00040*BD	September 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.23607	9/1/2007
2PT00040*BD	September 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.13	.23607	9/8/2007
2PT00040*BD	October 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	8.81	10/1/2007
2PT00040*BD	October 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	8.81	10/1/2007
2PT00040*BD	October 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.20008	10/1/2007
2PT00040*BD	October 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.13	.20008	10/1/2007
2PT00040*BD	November 2007	001	00530	Total Suspended Solids	30D Conc	12	46.	11/1/2007
2PT00040*BD	November 2007	001	00530	Total Suspended Solids	7D Conc	18	46.	11/8/2007
2PT00040*BD	November 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	11.2	11/1/2007
2PT00040*BD	November 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	11.2	11/8/2007
2PT00040*BD	November 2007	001	80082	CBOD 5 day	30D Conc	10	23.	11/1/2007
2PT00040*BD	November 2007	001	80082	CBOD 5 day	7D Conc	15	23.	11/8/2007
2PT00040*BD	December 2007	001	00530	Total Suspended Solids	30D Conc	12	34.4	12/1/2007
2PT00040*BD	December 2007	001	00530	Total Suspended Solids	7D Conc	18	34.4	12/1/2007
2PT00040*BD	December 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	38.6	12/1/2007
2PT00040*BD	December 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	38.6	12/1/2007
2PT00040*BD	December 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.25	.71589	12/1/2007
2PT00040*BD	December 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.38	.71589	12/1/2007
2PT00040*BD	December 2007	001	80082	CBOD 5 day	30D Conc	10	17.4	12/1/2007
2PT00040*BD	December 2007	001	80082	CBOD 5 day	7D Conc	15	17.4	12/1/2007
2PT00040*BD	January 2008	001	00530	Total Suspended Solids	30D Conc	12	22.7	1/1/2008
2PT00040*BD	January 2008	001	00530	Total Suspended Solids	7D Conc	18	22.7	1/15/2008
2PT00040*BD	January 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	7.27	1/1/2008
2PT00040*BD	January 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	7.27	1/15/2008
2PT00040*CD	February 2008	001	00530	Total Suspended Solids	30D Conc	12	29.4	2/1/2008
2PT00040*CD	February 2008	001	00530	Total Suspended Solids	7D Conc	18	29.4	2/8/2008
2PT00040*CD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	3.1	2/1/2008
2PT00040*CD	March 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	11.9	3/1/2008
2PT00040*CD	March 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	11.9	3/15/2008
2PT00040*CD	March 2008	001	80082	CBOD 5 day	30D Conc	10	19.2	3/1/2008
2PT00040*CD	March 2008	001	80082	CBOD 5 day	7D Conc	15	19.2	3/15/2008
2PT00040*CD	April 2008	001	00530	Total Suspended Solids	30D Conc	12	16.	4/1/2008
2PT00040*CD	April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	11.4	4/1/2008
2PT00040*CD	April 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	11.4	4/8/2008
2PT00040*CD	April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.25	.25889	4/1/2008
2PT00040*CD	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	7.06	5/1/2008
2PT00040*CD	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	7.06	5/15/2008
2PT00040*CD	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.13361	5/1/2008
2PT00040*CD	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.13	.13361	5/15/2008
2PT00040*CD	May 2008	001	80082	CBOD 5 day	30D Conc	10	14.1	5/1/2008
2PT00040*CD	June 2008	001	00530	Total Suspended Solids	30D Conc	12	54.	6/1/2008
2PT00040*CD	June 2008	001	00530	Total Suspended Solids	7D Conc	18	54.	6/15/2008
2PT00040*CD	July 2008	001	00530	Total Suspended Solids	30D Conc	12	20.7	7/1/2008
2PT00040*CD	July 2008	001	00530	Total Suspended Solids	7D Conc	18	20.7	7/22/2008
2PT00040*CD	September 2008	001	00530	Total Suspended Solids	30D Conc	12	12.4	9/1/2008
2PT00040*CD	October 2008	001	00530	Total Suspended Solids	30D Conc	12	22.5	10/1/2008
2PT00040*CD	October 2008	001	00530	Total Suspended Solids	7D Conc	18	22.5	10/8/2008
2PT00040*CD	October 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	13.6	10/1/2008
2PT00040*CD	October 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	13.6	10/8/2008
2PT00040*CD	October 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.25738	10/1/2008
2PT00040*CD	October 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.13	.25738	10/8/2008
2PT00040*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	12.4	11/1/2008
2PT00040*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	12.4	11/1/2008
2PT00040*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	7.91	12/1/2008
2PT00040*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	7.91	12/1/2008



2PT0004020090916

ASHLAND | MAPLETON JR & SR HS

| 2PT00040 2009/09/16 ARISS, WALTER

| ASHLAND



State of Ohio Environmental Protection Agency

Northwest District Office

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Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Kortleski, Director

Re: Ashland County
Mapleton Local Schools
NPDES Permit

September 15, 2009

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

Dear Mr. Marks:

On September 2, 2009, an inspection was conducted of the wastewater treatment facilities serving the Mapleton Schools located at 635 C.R. 801, Orange Township, Ashland County. At the time of the inspection the facility was operating in satisfactory condition. Mr. Dan Dennison of your staff and Mr. Tony Wierich of McGhee's TWSI were 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. Please be aware that Part II, paragraph M of your NPDES permit required that a sign be placed at the outfall no later than June 1, 2008. As of the date of the inspection the sign had yet to be erected. Please install this sign as soon as possible.

A review of the discharge monitoring reports submitted to our office for the months of January through July 2009 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

/lb

Enclosure

pc:\NWDO\DSW\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 CR 801 Date 9/2/09 Time 10:30 (am) pm

City Ashland County Ashland Township Orange

Name and Address of Owner Mapleton Schools

Person Contacted Don Harrison - Tony Gburek Owner Phone _____

Flow: Design 22,100 GPD Present 5,000-10,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 70° sunny

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 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"/>	_____ Chlorination Tablets
<input checked="" type="checkbox"/>	_____ Dechlorination Tablets
_____	_____ U.V.

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y _____ N Parameters: Ammonia, TSS
 Chronic Violations _____

5. Adequate plant safety

6. Operation and Maintenance Service Name McGhee's TWSZ

Frequency of Visits 1/week

Facility Name: Madeton School's

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	<input checked="" type="checkbox"/>	Trash Trap	Pumping Frequency: <i>when sludge is heaved</i>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	<input checked="" type="checkbox"/>	Flow Equalization	<i>okay/grates beginning to get rusty</i>
Aeration Equipment		Plant Timer <u>Y</u> <input checked="" type="checkbox"/> <u>N</u>	Cycle Time:
	<input checked="" type="checkbox"/>	Motor/ Blower Unit <i>running</i>	
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: <i>good color + roll</i> Adequate Aeration: <u>Y</u> <input checked="" type="checkbox"/> <u>N</u>
Final Settling	<input checked="" type="checkbox"/>	Clarifier	<i>fairly clear - just recently scraped sides</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>Both filters fairly clear</i>
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	<i>okay</i>
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder	<i>okay</i>
		Ultraviolet (UV)	
Flow Metering	<input checked="" type="checkbox"/>	Elapsed Pump Time	<i>on influent pump station</i>
		Recorder (continuous total)	
Pumps	<input checked="" type="checkbox"/>	Raw Wastewater (type) <i>submersible</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>currently washing into tank</i>
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	<input checked="" type="checkbox"/>	Post Aeration	<i>on</i>
		Spray Irrigation	
		Other	

Get New Data

Mapleton Schools NPDES Permit limit violations January through July 2009

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00040*CD	January 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	18.7	1/1/2009
2PT00040*CD	January 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	18.7	1/8/2009
2PT00040*CD	February 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	23.6	2/1/2009
2PT00040*CD	February 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.25	.44663	2/1/2009
2PT00040*CD	February 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	23.6	2/15/2009
2PT00040*CD	February 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.38	.44663	2/15/2009
2PT00040*CD	March 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	18.	3/1/2009
2PT00040*CD	March 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	18.	3/1/2009
2PT00040*CD	March 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.25	.27252	3/1/2009
2PT00040*CD	April 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	17.7	4/1/2009
2PT00040*CD	April 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	17.7	4/8/2009
2PT00040*CD	May 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	15.6	5/1/2009
2PT00040*CD	May 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	15.6	5/1/2009
2PT00040*CD	May 2009	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.08	.35428	5/1/2009
2PT00040*CD	May 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.13	.35428	5/1/2009
2PT00040*CD	June 2009	001	00530	Total Suspended Solids	30D Conc	12	14.	6/1/2009
2PT00040*CD	July 2009	001	00530	Total Suspended Solids	30D Conc	12	14.	7/1/2009