



**Environmental
Protection Agency**

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

October 12, 2010

**RE: STARK COUNTY
MARLINGTON LOCAL SCHOOLS
3PT00045*ED
LEXINGTON TWP.**

James Butler
Technical Consultant
Marlington Local Schools
10320 Moulin Avenue NE
Alliance, Ohio 44601

Dear Mr. Butler:

On October 6, 2010 this writer conducted a compliance evaluation inspection of the Marlington Local Schools wastewater treatment facilities located at 10320 and 13025 Moulin Avenue. Fred Millard, Maintenance Supervisor accompanied me during the visit. Below are my inspection observations for each plant:

Middle School (001)

- 1) The aeration tank contents were a light brown almost clay color.
- 2) The clarifier surface was clear but with an accumulation of floating leaves and needles.
- 3) The metal plant wall on the west side at ground surface has a hole and needs to be patched to prevent surface water from entering the system.
- 4) The sludge and skimmer returns were functioning.
- 5) The surface sand filters were clean but need to be leveled.
- 6) The chlorination and dechlorination tanks were clear as was the discharge.

Pictures are attached.

High School (002)

- 1) The contents of the aeration tank were a good chocolate brown.
- 2) There was a large accumulation of floating solids in the clarifier.
- 3) The sludge and skimmer returns were working however the top of the skimmer return had become disconnected. You reattached it while I was there.
- 4) The south half of the sand filter was solid with dead vegetation. Reportedly, weed killer was applied. This is not allowed. The filters must be continually kept clean by pulling the young weeds and surface raking. At the time of the inspection this filter was in use.

James Butler
 Technical Consultant
 Marlinton Local Schools
 October 12, 2010
 Page 2

- 5) The north half of the surface sandfilter also contained excessive weeds. There were also two large ground hog holes under the southern most pad. The ground hogs need to be removed and the holes patched to prevent short circuiting.

Pictures are attached for your reference.

A review of the compliance history for these plants and associated outfalls for the time period of November 2008 thru August 2010 as identified by our SWIMS tracking system:

Numeric Violations

Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
002	Nitrogen, Ammonia (NH3)	30D Conc	4.5	6.7	2/1/2008
001	CBOD 5 day	30D Qty	1.0	2.7252	3/1/2008
001	CBOD 5 day	7D Qty	1.4	2.7252	3/15/2008
001	Fecal Coliform	30D Conc	1000	3500.	10/1/2008
001	Fecal Coliform	7D Conc	2000	3500.	10/8/2008
002	CBOD 5 day	30D Conc	10	30.	10/1/2008
002	CBOD 5 day	7D Conc	15	30.	10/8/2008
001	CBOD 5 day	30D Conc	10	11.	6/1/2008
002	Fecal Coliform	30D Conc	1000	1600.	6/1/2008
001	Nitrogen, Ammonia (NH3)	30D Conc	4.5	5.43	1/1/2008
001	CBOD 5 day	30D Conc	10	13.	4/1/2008
002	CBOD 5 day	30D Conc	10	11.	4/1/2008
001	CBOD 5 day	30D Conc	10	14.	7/1/2009
001	Total Suspended Solids	30D Conc	12	14.	12/1/2009
002	pH	1D Conc	6.5	3.02	5/5/2010
001	Total Suspended Solids	30D Conc	12	59.	3/1/2009
001	Total Suspended Solids	7D Conc	18	59.	3/8/2009
001	CBOD 5 day	30D Conc	10	66.	3/1/2009
001	CBOD 5 day	7D Conc	15	66.	3/8/2009
001	Nitrogen, Ammonia (NH3)	30D Conc	4.5	17.9	12/1/2008
001	Nitrogen, Ammonia (NH3)	7D Conc	6.8	17.9	12/8/2008
001	Nitrogen, Ammonia (NH3)	30D Qty	0.43	.68429	12/1/2008
001	Nitrogen, Ammonia (NH3)	7D Qty	0.64	.68429	12/8/2008
001	Total Suspended Solids	30D Conc	12	14.	1/1/2010
001	Nitrogen, Ammonia (NH3)	30D Conc	4.5	9.04	1/1/2010
001	Nitrogen, Ammonia (NH3)	7D Conc	6.8	9.04	1/15/2010
001	CBOD 5 day	30D Conc	10	21.	1/1/2010
001	CBOD 5 day	7D Conc	15	21.	1/15/2010

James Butler
 Technical Consultant
 Marlinton Local Schools
 October 12, 2010
 Page 3

Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	Turbidity, Severity	1/Day	1	0	03/24/2008
002	Turbidity, Severity	1/Day	1	0	09/24/2008
001	pH	1/Week	1	0	12/22/2008
001	Dissolved Oxygen	1/Week	1	0	12/22/2008
002	pH	1/Week	1	0	12/22/2008
002	Dissolved Oxygen	1/Week	1	0	12/22/2008
002	pH	1/Week	1	0	05/22/2010
002	Dissolved Oxygen	1/Week	1	0	05/22/2010
002	Color, Severity	1/Day	1	0	05/27/2010
002	Odor, Severity	1/Day	1	0	05/27/2010
002	Turbidity, Severity	1/Day	1	0	05/27/2010
002	Flow Rate	1/Day	1	0	05/27/2010
002	Water Temperature	1/Day	1	0	05/28/2010
002	Color, Severity	1/Day	1	0	05/28/2010
002	Odor, Severity	1/Day	1	0	05/28/2010
002	Turbidity, Severity	1/Day	1	0	05/28/2010
002	Flow Rate	1/Day	1	0	05/28/2010
002	Water Temperature	1/Day	1	0	05/29/2010
002	Color, Severity	1/Day	1	0	05/29/2010
002	Odor, Severity	1/Day	1	0	05/29/2010
002	Turbidity, Severity	1/Day	1	0	05/29/2010
002	Flow Rate	1/Day	1	0	05/29/2010
002	Water Temperature	1/Day	1	0	05/30/2010
002	Color, Severity	1/Day	1	0	05/30/2010
002	Odor, Severity	1/Day	1	0	05/30/2010
002	Turbidity, Severity	1/Day	1	0	05/30/2010
002	Flow Rate	1/Day	1	0	05/30/2010
002	Water Temperature	1/Day	1	0	05/31/2010
002	Color, Severity	1/Day	1	0	05/31/2010
002	Odor, Severity	1/Day	1	0	05/31/2010
002	Turbidity, Severity	1/Day	1	0	05/31/2010
002	Flow Rate	1/Day	1	0	05/31/2010
002	Color, Severity	1/Day	1	0	08/16/2010
002	Odor, Severity	1/Day	1	0	08/16/2010
002	Turbidity, Severity	1/Day	1	0	08/16/2010
002	Flow Rate	1/Day	1	0	08/16/2010
002	Flow Rate	1/Day	1	0	08/17/2010
002	Water Temperature	1/Day	1	0	08/17/2010
002	Color, Severity	1/Day	1	0	08/17/2010
002	Odor, Severity	1/Day	1	0	08/17/2010
002	Turbidity, Severity	1/Day	1	0	08/17/2010
002	Flow Rate	1/Day	1	0	08/18/2010
002	Water Temperature	1/Day	1	0	08/18/2010
002	Color, Severity	1/Day	1	0	08/18/2010

James Butler
Technical Consultant
Marlington Local Schools
October 12, 2010
Page 5

002	Turbidity, Severity	1/Day	1	0	08/27/2010
002	Flow Rate	1/Day	1	0	08/28/2010
002	Water Temperature	1/Day	1	0	08/28/2010
002	Color, Severity	1/Day	1	0	08/28/2010
002	Odor, Severity	1/Day	1	0	08/28/2010
002	Turbidity, Severity	1/Day	1	0	08/28/2010
002	Flow Rate	1/Day	1	0	08/29/2010
002	Water Temperature	1/Day	1	0	08/29/2010
002	Color, Severity	1/Day	1	0	08/29/2010
002	Odor, Severity	1/Day	1	0	08/29/2010
002	Turbidity, Severity	1/Day	1	0	08/29/2010
002	Flow Rate	1/Day	1	0	08/30/2010
002	Water Temperature	1/Day	1	0	08/30/2010
002	Color, Severity	1/Day	1	0	08/30/2010
002	Odor, Severity	1/Day	1	0	08/30/2010
002	Turbidity, Severity	1/Day	1	0	08/30/2010
002	Flow Rate	1/Day	1	0	08/31/2010
002	Water Temperature	1/Day	1	0	08/31/2010
002	Color, Severity	1/Day	1	0	08/31/2010
002	Odor, Severity	1/Day	1	0	08/31/2010
002	Turbidity, Severity	1/Day	1	0	08/31/2010

We request that you respond in writing to the above listed violations and deficiencies and with your intentions to resolve them. We would also request that you identify the location for sampling the wastewater plant discharges at the middle and high schools. This is requested in writing to this office no later than October 29, 2010.

If you should have any questions, feel free to contact this writer at (330) 963-1136 or by e-mail at phil.rhodes@epa.state.oh.us.

Sincerely,



Philip P. Rhodes, P.E.
Environmental Specialist II
Division of Surface Water

PPR:cl
Attachment

File: Semi-Public\Marlington School District

James Butler
Technical Consultant
Marlington Local Schools
October 12, 2010
Page 4

002	Odor, Severity	1/Day	1	0	08/18/2010
002	Turbidity, Severity	1/Day	1	0	08/18/2010
002	Flow Rate	1/Day	1	0	08/19/2010
002	Water Temperature	1/Day	1	0	08/19/2010
002	Color, Severity	1/Day	1	0	08/19/2010
002	Odor, Severity	1/Day	1	0	08/19/2010
002	Turbidity, Severity	1/Day	1	0	08/19/2010
002	Flow Rate	1/Day	1	0	08/20/2010
002	Water Temperature	1/Day	1	0	08/20/2010
002	Color, Severity	1/Day	1	0	08/20/2010
002	Odor, Severity	1/Day	1	0	08/20/2010
002	Turbidity, Severity	1/Day	1	0	08/20/2010
002	Flow Rate	1/Day	1	0	08/21/2010
002	Water Temperature	1/Day	1	0	08/21/2010
002	Color, Severity	1/Day	1	0	08/21/2010
002	Odor, Severity	1/Day	1	0	08/21/2010
002	Turbidity, Severity	1/Day	1	0	08/21/2010
002	Flow Rate	1/Day	1	0	08/22/2010
002	Water Temperature	1/Day	1	0	08/22/2010
002	Color, Severity	1/Day	1	0	08/22/2010
002	Odor, Severity	1/Day	1	0	08/22/2010
002	Turbidity, Severity	1/Day	1	0	08/22/2010
002	Flow Rate	1/Day	1	0	08/23/2010
002	Water Temperature	1/Day	1	0	08/23/2010
002	Color, Severity	1/Day	1	0	08/23/2010
002	Odor, Severity	1/Day	1	0	08/23/2010
002	Turbidity, Severity	1/Day	1	0	08/23/2010
002	Flow Rate	1/Day	1	0	08/24/2010
002	Water Temperature	1/Day	1	0	08/24/2010
002	Color, Severity	1/Day	1	0	08/24/2010
002	Odor, Severity	1/Day	1	0	08/24/2010
002	Turbidity, Severity	1/Day	1	0	08/24/2010
002	Flow Rate	1/Day	1	0	08/25/2010
002	Water Temperature	1/Day	1	0	08/25/2010
002	Color, Severity	1/Day	1	0	08/25/2010
002	Odor, Severity	1/Day	1	0	08/25/2010
002	Turbidity, Severity	1/Day	1	0	08/25/2010
002	Flow Rate	1/Day	1	0	08/26/2010
002	Water Temperature	1/Day	1	0	08/26/2010
002	Color, Severity	1/Day	1	0	08/26/2010
002	Odor, Severity	1/Day	1	0	08/26/2010
002	Turbidity, Severity	1/Day	1	0	08/26/2010
002	Flow Rate	1/Day	1	0	08/27/2010
002	Water Temperature	1/Day	1	0	08/27/2010
002	Color, Severity	1/Day	1	0	08/27/2010
002	Odor, Severity	1/Day	1	0	08/27/2010

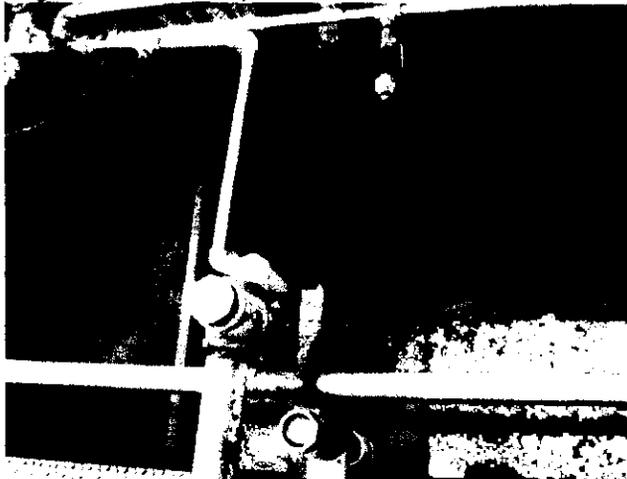
Middle School (wwtp)



Middle School (note hole in side of plant)



High School wwtp clarifier

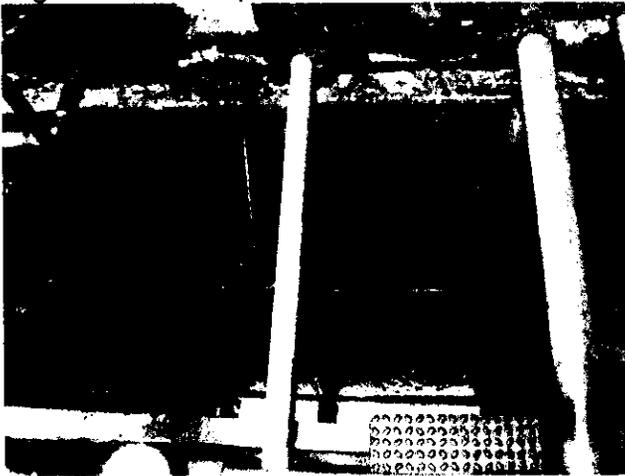


James Butler
Technical Consultant
Marlington Local Schools
October 12, 2010
Page 7

High School wwtp clarifier



High School wwtp clarifier weir



7

James Butler
Technical Consultant
Marlington Local Schools
October 12, 2010
Page 8

High School sand filter



High School sand filter

