



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

Re: Crawford County
Crawford County WWTPs
NPDES Permit

July 26, 2013

Mr. R. Lyn Makeever
Crawford County Sanitary Engineer
112 East Mansfield Street
Bucyrus, Ohio 44820

Dear Mr. Makeever:

On July 17, 2013, inspections were made of the wastewater treatment facilities serving Morton, Linlare Village, and Sugar Grove Subdivisions. Our observations and recommendations for each are below.

Morton Subdivision

An inspection of the wastewater treatment facilities serving Morton Subdivision shows the treatment plant is operating well. A temporary pump is being used in the wet well that doses the plant as the original pumps had recently failed. The aeration tanks were light in color and there was some white foam present. The tank was receiving an adequate amount of air. The blowers are on a timer that runs 45 minutes on and 15 minutes off. The clarifier had some solids on the surface, but appeared to be operating well. The sand filters were in fair condition. They had some solids and plant growth on them and slight ponding. The UV system was in and operational.

A review of your discharge monitoring reports from November 2012 through June 2013 indicates the following violation of the terms and conditions of your National Pollutant Discharge Elimination System (NPDES) permit:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
11/28/2012	001	00300	Dissolved Oxygen	1D Conc	6.0	5.5

Linlare Village

An inspection of the wastewater treatment facilities serving Linlare Village shows the treatment plant is operating well. The aeration tanks had a healthy brown color and were receiving an adequate amount of air. The clarifier was operating well and a clear effluent was observed. The south sand filter had solids and plant growth on the surface and was ponded. The north

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sand filter was in good condition. The UV system was in and operational. Recent storms had caused the plant to be without power for approximately 24 hours. A generator owned by the county was repaired and is now being kept at the plant.

A review of your discharge monitoring reports from November 2012 through June 2013 indicates no violations of the terms and conditions of your NPDES permit.

Sugar Grove

An inspection of the wastewater treatment facilities serving Sugar Grove shows the treatment plant is operating adequately. The aeration tanks had a light brown color and had some white foam. The clarifier appeared to be operating well and had a clear effluent. The sand filters were in good condition. The UV system was in and operational.

A review of your discharge monitoring reports from January 2013 through June 2013 indicates the following violations of the terms and conditions of your NPDES permit:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
1/1/2013	001	00530	Total Suspended Solids	30D Conc	12.0	26.
1/22/2013	001	00530	Total Suspended Solids	7D Conc	18.0	26.
1/1/2013	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	39.6
1/22/2013	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	39.6
1/1/2013	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.18511
1/22/2013	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.18511
1/1/2013	001	80082	CBOD 5 day	30D Conc	10.0	15.
5/1/2013	001	80082	CBOD 5 day	30D Conc	10.0	13.

If you have any questions, please call me at 419-373-3019.

Sincerely,



Michelle Sharp
Environmental Specialist II
Division of Surface Water

/jlm

Enclosures

pc: Crawford County Health Department

ec: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PG00115

Facility Name Morton Subdivision Expiration Date 7-31-14

Facility Address Ronald Street Date 7-17-13 Time 850 am / pm

City Bucyrus County Crawford Township _____

Name and Address of Owner Crawford Co Commissioners

Person Contacted R Lyn Makeever Owner Phone _____

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

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 82° Sunny

OEPA Personnel Michelle Sharp 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		Heavv Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<input checked="" type="checkbox"/>	_____ U.V.

Yes No

4. _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____

Chronic Violations _____

5. _____ Adequate plant safety

6. _____ Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Morton

Process	# Units	Unit	If Needed - Description and Comments
Preliminary		Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	X	Plant Timer <u>X</u> Y ___ N Motor/ Blower Unit	Cycle Time: 45 on 15 off
Secondary Treatment	X	Aeration Tank	Color: Bit light, some foam Adequate Aeration: Y <u>X</u> N ___
Final Settling	X	Clarifier	OK, some sludge
	X	Sludge Return	In X Out Light
	X	Surface Skimmer	In X Out
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	Solids, plant, ponding
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PG00089

Facility Name Linlarc Village Expiration Date 7-31-12

Facility Address 3225 Parcher Rd Date 7-17-13 Time 9:15 am / pm

City Bucyrus County Crawford Township _____

Name and Address of Owner Crawford Co Commissioners

Person Contacted R. Lyn Makeever Owner Phone _____

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

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

OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	X	Clear	X	None	X	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

- 3. a. Plant has _____ excellent X good _____ fair _____ poor operation
- b. Plant has _____ excellent X good _____ fair _____ poor maintenance
- c. Sand filters have _____ excellent _____ good X 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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<u>X</u>	_____ U.V.

Yes No

4. X _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____

Chronic Violations _____

5. X _____ Adequate plant safety

6. X _____ Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Linlase Village

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: As needed Steiger → Bucyrus
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>N</u>	Cycle Time:
	X	Motor/ Blower Unit	15 off 45 on
Secondary Treatment		Aeration Tank	Color: OK Adequate Aeration: Y <u>X</u> N
Final Settling	X	Clarifier	OK, clear, some solids
	X	Sludge Return	In X Out Good Color
	X	Surface Skimmer	In X Out
	X	Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	Algae, flooded, solids, plant / OK
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling	✓	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	X	Municipal POTW	
	X	Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PW00013

Facility Name Sugar Grove WWTP Expiration Date July 31, 2014

Facility Address Sugar Grove Lake Rd Date _____ Time _____ am / pm

City Galion County Crawford Township _____

Name and Address of Owner Crawford Co Commissioners

Person Contacted R. Lyn Makeever Owner Phone _____

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

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

OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	X	Clear	X	None	X	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent X good _____ fair _____ poor operation
 b. Plant has _____ excellent X good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent X 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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<u>X</u>	_____ U.V.

Yes No

4. X Compliance with NPDES Permit

Periodic Violations Y X N Parameters: TSS Ammonia CBOD

Chronic Violations _____

5. X Adequate plant safety

6. X Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Sugar Grove Lake

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: <i>As Needed Steiger</i>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	X	Plant Timer <u>X</u> <u>Y</u> <u>N</u> Motor/ Blower Unit	Cycle Time:
Secondary Treatment	X	Aeration Tank	Color: <i>thin, light foam</i> Adequate Aeration: Y <u>X</u> N
Final Settling	X	Clarifier	<i>Good. Clear Effluent</i>
	X	Sludge Return	In <u>X</u> Out <i>Light</i>
	X	Surface Skimmer	In <u>X</u> Out
	X	Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<i>Good</i>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	
Flow Metering	X	Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling	X	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	X	Municipal POTW	
	X	Landfill	
		Land Application	
Advanced Treatment	X	Post Aeration	
		Spray Irrigation	
		Other	