



**Environmental
Protection Agency**

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

RE: Mercer County
Mercer County Commissioners
NPDES Permit

June 29, 2012

Mr. Kent Hinton
220 West Livingston Street, Suite A 230
Celina, Ohio 45822

Dear Mr. Hinton:

On May 22, 2012, National Pollutant Discharge Elimination System (NPDES) permit compliance inspections were completed at the Mercer County wastewater treatment plants (WWTPs). Ohio EPA representative Ms. Michelle Sharp met with Mr. James Karafit and Mr. Allen Gruss, who provided information about each plant. Our observations and recommendations are below.

Montezuma Club Island

In general, both operation and maintenance appeared good. At the time of inspection, the first lagoon was empty and the influent was coming into the second lagoon. Construction of the fourth lagoon was ongoing. Sludge from the wooded area on the property was being moved and stored by the office building.

We are in receipt of the discharge monitoring reports from May 2011 through April 2012. Our review indicates no violations of the terms and conditions of your NPDES permit. Records are being kept as required by your NPDES permit.

Philothea

In general, both operation and maintenance appeared good. The aerators in the first lagoon were operating. The lagoons were not discharging at the time of inspection. The lagoons were last discharged in January for two weeks. The log book for the plant was present at the plant. It appears that proper documentation was being maintained and that minimum staffing hours are being met.

We are in receipt of the discharge monitoring reports from May 2011 through April 2012. Our review indicates no violations of the terms and conditions of your NPDES permit.

Wagner's Subdivision

In general, both operation and maintenance appeared good. All major treatment components were in operation, and a clear effluent was observed. The mixed liquor in the aeration tanks had good color and was receiving an adequate amount of air. The sludge return and skimmer were both operating well. The clarifier appeared to be operating well. The west sand filter had some solids, ponding, and plant growth on it. The east sand filter was in good condition. Chlorination and dechlorination tablets were observed in the tube feeders. The log book for the plant was present. It appears that proper documentation was being maintained and that minimum staffing hours are being met.

We are in receipt of the discharge monitoring reports from December 2011 through April 2012. Our review indicates one violation of the terms and conditions of your NPDES permit and it is listed below.

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
3/1/2012	001	00530	Total Suspended Solids	7D Qty	0.70	.76457

Mr. Kent Hinton
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West Jefferson

At the time of inspection, the aeration tanks had a healthy brown color and were receiving an adequate amount of air. The returns and skimmers were operating properly. The clarifier had some floating sludge and some sludge in the trough, but it was discharging a clear effluent. The upflow filters needed to be cleaned, but were discharging a clear effluent. The sand filters had some plant growth and some sludge on the surface. The effluent was clear. The log book for the plant was present. It appears that proper documentation was being maintained and that minimum staffing hours are being met. There was debris observed on the grates of the aeration tanks and on the ground around the tanks. This debris should be cleaned up and properly disposed.

We are in receipt of the discharge monitoring reports from February 2012 through April 2012. Our review indicates no violations of the terms and conditions of your NPDES permit

Country Time

The aeration tank had a healthy color and was receiving an adequate amount of air. The skimmer and return were both operating. The sludge being returned was light in color. The clarifier had some scum on the surface and the trough needed to be cleaned. The sand filters had some solids and plant growth on them. Chlorination and dechlorination tablets were observed in the feeders. The effluent appeared clear.

A review of the record book at this plant indicates that the minimum staffing hour requirements may not be met. When we were there on May 22, 2012, the last visit documented was on May 15, 2012, and the visit before that was on May 11, 2012. For a Class A plant, an operator must be at the facility a minimum of twice a week for a minimum of one hour. Please inform this office of your plan to ensure the staffing requirements will be met.

We are in receipt of the discharge monitoring reports for May 2011 through April 2012. Our review indicates the following violations of the terms and conditions of your NPDES permit:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
5/1/2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.
5/1/2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	2.

Our completed inspection reports are enclosed for your records. If you have any questions, please call Michelle Sharp at (419) 373-3019.

Sincerely,



Elizabeth A. Wick, P.E.
Environmental Engineer/Section Manager
Division of Surface Water

MS/jlm
Enclosures

pc: Mercer County Health Department
Mr. Jared Ebbing, Mercer County Economic Development
ec: Tracking



State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
OH0078441	2PH00015	5/22/12	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Montezuma Club Island WWTP 6590 Guadalupe Rd Celina, Ohio 45822	9:30 AM	May 1, 2011
	Exit Time	Permit Expiration Date
		April 30, 2016
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mr. Allen Gruss, Operator	419-584-1982	
Name, Address and Title of Responsible Official	Phone Number	
Mr. Kent Hinton 220 W. Livingston Street Room A201 Celina, Ohio 45822	419-584-1982	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	N	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
Inspector	Reviewer
<i>Michelle Sharp</i> 6/26/12 Michelle Sharp Date Division of Surface Water Northwest District Office	<i>Thomas Poffenbarger</i> 6/20/12 Thomas Poffenbarger, P.E. Date Water Quality Engineer Division of Surface Water Northwest District Office



State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
OH0132608	2PG00113	5/22/12	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Philothea SD WWTP North side of unincorporated area Philothea, Ohio 45822	10:00 AM	June 1, 2009
	Exit Time	Permit Expiration Date
		May 31, 2014
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mr. Allen Gruss, Operator	419-584-1982	
Name, Address and Title of Responsible Official	Phone Number	
Mr. Kent Hinton 220 W. Livingston Street Room A201 Celina, Ohio 45822	419-584-1982	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	N	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
Inspector	Reviewer
<i>Michelle Sharp</i> 6/26/12	<i>Thomas Poffenbarger</i> 6/20/12
Michelle Sharp Division of Surface Water Northwest District Office	Thomas Poffenbarger, P.E. Water Quality Engineer Division of Surface Water Northwest District Office

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PR00101

Facility Name Wagner WWTP Expiration Date 2-28-17

Facility Address North Side of St Anthony Rd 0.5mi East of SR119 Date 5-22-13 Time 10:30 am

City Celina County Merce Township _____

Name and Address of Owner Merce County Commissioners

Person Contacted Allen Gruss Owner Phone 419 584 1982

Flow: Design 10,000 GPD Present 6,400 GPD (metered - estimated)

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

OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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: Branch of Hardin Creek

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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) X hydraulic overload
 (2) _____ organic/ solids overload
 (3) _____ personnel inefficiency
 (4) _____ equipment failure
 (5) _____ wastes
 (6) _____

Disinfection: (Required May 1 thru Oct.31.)	
IN	OUT
<u>X</u>	_____ Chlorination Tablets
<u>X</u>	_____ Dechlorination Tablets
_____	_____ 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: Wagner WWTP

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: ~ 2 months
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	X	Plant Timer <u>X</u> Y ___ N Motor/ Blower Unit	Cycle Time:
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: Y <u>X</u> .N ___
Final Settling	X	Clarifier	OK, some scum, Effluent good
	X	Sludge Return	In <u>X</u> Out ___
	X	Surface Skimmer	In <u>X</u> Out ___
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	ponded algae / OK
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		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. 2PG00104

Facility Name West Jefferson SD WWTP Expiration Date 1-31-16
 Facility Address 4871 SR 29 Date 5-22-12 Time 11:00 am pm
 City _____ County Mercer Township Jefferson
 Name and Address of Owner Mercer County Commissioners
 Person Contacted Mr Allen Gruss Owner Phone 419 584 1982
 Flow: Design 72,000 GPD Present 42,100 GPD (metered - estimated)
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp _____ ° Cloudy
 OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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	
<u>X</u>	_____	Chlorination Tablets
<u>X</u>	_____	Dechlorination Tablets
_____	_____	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: West Jefferson

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> ___ N	Cycle Time:
	X	Motor/ Blower Unit	
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Debris on grates, ground Adequate Aeration: Y <u>X</u> N ___
Final Settling	X	Clarifier	floating sludge, some sludge in trap trough
	X	Sludge Return	In X Out
	X	Surface Skimmer	In X Out
	X	Fixed Media Clarifier	Needed cleaned, Effluent clear
Tertiary Treatment	X	Surface Sand Filter	Plant growth, some sludge
		Polishing Pond	
		Other	
Disinfection	X	Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		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. 2PG00120

Facility Name Country Time Subdivision WWTP Expiration Date _____
 Facility Address W side of US RT 127, 350 ft S of Fast Rd Date 5-22-12 Time 10:00 am / pm
 City Celina County Mercer Township 11.30
 Name and Address of Owner Mercer County Commissioners
 Person Contacted Mr Allen Gruss Owner Phone 419 584 1982
 Flow: Design 8,000 GPD Present 3409 GPD (metered - estimated)
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp ° Sunny
 OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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 _____ good x fair _____ poor operation
 b. Plant has _____ excellent _____ good x 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	
<u>x</u>	_____	Chlorination Tablets
<u>x</u>	_____	Dechlorination Tablets
_____	_____	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: Country Time Subdivision

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> <u>Y</u> <u>N</u> Motor/ Blower Unit	Cycle Time: <u>Not Sure</u>
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: Y <u>X</u> N
Final Settling	X	Clarifier	<u>Some scum, Trough needs cleaned</u>
	X	Sludge Return	In <u>X</u> Out <u>Light</u>
	X	Surface Skimmer	In <u>X</u> Out
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<u>Some solids + plant growth</u>
		Polishing Pond	
		Other	
Disinfection	X	Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		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	