

Blue - Mercer - West Jeff



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: Mercer County
Mercer County Commissioners
NPDES Permit

July 24, 2009

Mercer County Commissioners
220 W. Livingston Street
Suite A 230
Celina, Ohio 45822

Dear Commissioners:

On February 2, 2009, an operation and maintenance inspection was made of the Philothea Wastewater Treatment Plant. On May 21, 2009, an operation and maintenance inspection was made of the wastewater treatment facilities serving Montezuma Club Island area, Chapel Hill, Wagner's Subdivision, Northwood and Country Time. On May 21, 2009, and June 18, 2009, an operation and maintenance inspection was made of the wastewater treatment facilities serving the West Jefferson area. Mr. James Karafit, Lab Tech, was present on February 2, 2009, and May 21, 2009, and provided information about the operation of the treatment facilities to Ohio EPA representatives Michelle Sharp and Andy Gall. Our observations and recommendations are as follows:

Philothea Wastewater Treatment System

At the time of inspection, the wastewater treatment plant appeared to be operating well. The plant was not discharging, but the final pond did appear to be clear. Maintenance of the treatment system and surrounding area appeared to be good.

We are in receipt of the discharge monitoring reports from February 2004, through May 2009. Our review indicates no violations of the terms and conditions of your NPDES permit.

Montezuma Club Island

At the time of the inspection, the wastewater treatment plant appeared to be operating well. Cell II was being used as the influent cell while Cell I was out of service. Mr. Karafit indicated that you are preparing to clean out Cell I. The area in Cell II, where the vac truck is emptied, has been built up to make it easier for the truck to be emptied. Maintenance of the treatment system and surrounding area appeared to be good.

We are in receipt of the discharge monitoring reports from April 200, through May 2009. Our review indicates one violation of the terms and conditions of your NPDES permit. The specific instance of noncompliance is listed below:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
3/21/2008	001	00400	pH	1D Conc	9.0	9.6

Chapel Hill

All major treatment components were in operation, and a clear effluent was observed. The aeration tanks were receiving an adequate amount of air and the mixed liquor had a healthy brown color. The clarifiers had a significant amount of solids in them. The sand filters were in poor condition. They were flooded and covered in weed growth. Chlorination and dechlorination tablets were observed in the tube feeders.

We are in receipt of the discharge monitoring reports from October 2005 through May 2009. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are listed below:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
1/1/2006	001	00530	Total Suspended Solids	30D Qty	0.91	.96896
2/1/2006	001	80082	CBOD 5 day	30D Conc	10	12.
2/1/2006	001	80082	CBOD 5 day	30D Qty	0.8	1.04012
2/1/2007	001	00530	Total Suspended Solids	30D Qty	0.91	.9841
12/1/2007	001	00530	Total Suspended Solids	30D Qty	0.91	.95382
3/1/2008	001	00530	Total Suspended Solids	30D Qty	0.91	1.24905
3/1/2009	001	00530	Total Suspended Solids	30D Qty	0.91	.93262

Our office has recently approved a permit to install (PTI) for the connection of this plant into the Chickasaw lagoon system. Please contact our office when this connection has been made, so that we can ensure that the plant is properly abandoned and the National Pollutant Discharge Elimination System (NPDES) permit can be issued a "No Permit Required" status.

Wagner's Subdivision

In general, both operation and maintenance appeared fair. All major treatment components were in operation, and a clear effluent was observed. The mixed liquor in the aeration tanks was light in color, but was receiving an adequate amount of air. The sludge return and skimmer were both operating, but the sludge return was light in color. The clarifiers had a significant amount of solids in them. The sand filters were in poor condition. They were flooded, had solids in them, and had algae growing.

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Also, a leak from the sand filters was observed and pointed out to Mr. Karafit. Chlorination and dechlorination tablets were observed in the tube feeders. **Please respond in writing, within 30 days of receipt of this letter, if the sand filter leak has been fixed and how it was resolved.**

We are in receipt of the discharge monitoring reports from April 2009, through May 2009. Our review indicates no violations of the terms and conditions of your NPDES permit.

Northwood

In general, both operation and maintenance appeared fair. All major treatment components were in operation, and a clear effluent was observed. The trickling filters had good microbial growth on them. The sand filters were in poor condition. They were flooded and covered in weed growth and solids. Chlorination and dechlorination tablets were observed in the tube feeders.

We are in receipt of the discharge monitoring reports from August 2005, through May 2009. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are enclosed.

Country Time

In general, both operation and maintenance appeared fair. All major treatment components were in operation, and a clear effluent was observed. The aeration tanks were grey in color, but were receiving an adequate amount of air. The clarifier was cloudy. The sand filters were in fair condition. They had weed growth and solids in them. Chlorination and dechlorination tablets were observed in the tube feeder.

Our records indicate that the discharge from this wastewater treatment plant is not covered by a National Pollutant Discharge Elimination System (NPDES) permit. Chapter 6111, Ohio Revised Code and P.L. 92-500, State and Federal Law, respectively, require that all wastewater dischargers to Waters of the State apply for an NPDES permit for that discharge. This NPDES permit will require self monitoring of plant conditions and sampling of the final effluent prior to discharge. Monthly operating reports will need to be submitted to this Agency. You must provide an initial laboratory analysis of the final effluent characteristics along with the application.

Enclosed are NPDES application forms 1 and 2E for the wastewater treatment plant discharge along with instructions for completing the forms. An Antidegradation Addendum is also enclosed which is required by Ohio Administrative Code 3745-01-05. Please read it carefully and complete those sections applicable to your discharge. Please pay close attention to the signature requirements. Our agency requires a \$200.00 application fee to be submitted with the forms. All checks should be made payable to the **Treasurer, State of Ohio**.

West Jefferson Sewer District FKA Mercer Co. Home

May 21, 2009

In general, both operation and maintenance appeared fair. All major treatment components were in operation, and a clear effluent was observed. The aeration tanks were receiving an adequate amount of air and the mixed liquor had a healthy brown color. The clarifiers had a high sludge blanket in them. The sand filters were in poor condition. They were flooded and covered in solids. Chlorination and dechlorination tablets were observed in the tube feeders. The new plant was installed, but waiting for final connections to be made.

June 18, 2009

In general, both operation and maintenance appeared poor. All major treatment components were in operation. The aeration tanks were receiving an adequate amount of air and the mixed liquor had a light brown color. The sand filters were in very poor condition. The old filters were flooded with septic water and covered in solids. Chlorination and dechlorination tablets were observed in the tube feeders. The water in the chlorine contact tank was black and septic. A discussion with Mr. Brice Schmitmeyer, from Fanning and Howey indicated that the new plant had just come online the day before and the septic water was probably coming from the old sand filters. He indicated that the new filters were being utilized and that the old filters were offline. Ms. Sharp asked him to have the septic water pumped out of the chlorine contact tank and hauled to Montezuma Club Island. While we understand that it will take some time for the new plant to come online and work properly, it is not acceptable to discharge septic water from the treatment plant.

We are in receipt of the discharge monitoring reports from April 2009, through May 2009. Our review has indicated violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are listed below:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
5/1/2009	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	2.9
5/1/2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.3	2.9
5/1/2009	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.4	.66408
5/1/2009	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.6	.66408

Please be advised that failure to comply with the effluent limitations and/or monitoring requirements, including adequate laboratory controls, appropriate quality assurance procedures, and records retention, as specified in Part III of your NPDES permit may be cause for enforcement action pursuant to Ohio Revised Code, Chapter 6111.

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If these violations continue to occur and if satisfactory progress is not made, it may be necessary to initiate enforcement action to achieve compliance.

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

Sincerely,



Elizabeth A. Wick, P.E.
District Engineer
Division of Surface Water

/llr

pc: Mr. Kent Hinton, Director of Mercer County Sanitary Department
4DSW-NWDO File, w/ enclosures

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Elizabeth A. Wick, P.E.
District Engineer
Division of Surface Water

//lr

pc: Mr. Kent Hinton, Director of Mercer County Sanitary Department
DSW-NWDO File w/ enclosures

bc: Jared Ebbing, Fanning Howey

Northwood Violations for August 1, 2005 - June 1, 2009

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
11/1/2005	001	00530	Total Suspended Solids	7D Qty	3.4	5.9803
12/1/2005	001	00530	Total Suspended Solids	30D Qty	2.3	2.88644
12/1/2005	001	80082	CBOD 5 day	30D Qty	2.0	3.00469
12/8/2005	001	00530	Total Suspended Solids	7D Qty	3.4	6.25433
12/8/2005	001	80082	CBOD 5 day	7D Qty	2.8	3.70048
12/15/2005	001	80082	CBOD 5 day	7D Qty	2.8	3.78682
12/22/2005	001	80082	CBOD 5 day	7D Qty	2.8	2.8657
1/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	3.86032
1/1/2006	001	00530	Total Suspended Solids	7D Qty	3.4	4.18318
1/1/2006	001	80082	CBOD 5 day	30D Qty	2.0	5.67386
1/8/2006	001	00530	Total Suspended Solids	7D Qty	3.4	4.56774
1/8/2006	001	80082	CBOD 5 day	7D Qty	2.8	9.59225
1/15/2006	001	00530	Total Suspended Solids	7D Qty	3.4	4.52686
1/15/2006	001	80082	CBOD 5 day	7D Qty	2.8	4.64003
1/22/2006	001	80082	CBOD 5 day	7D Qty	2.8	6.05782
2/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	6.46459
2/1/2006	001	80082	CBOD 5 day	30D Qty	2.0	4.23322
2/1/2006	001	80082	CBOD 5 day	7D Qty	2.8	2.94151
2/8/2006	001	00530	Total Suspended Solids	7D Qty	3.4	7.53669
2/8/2006	001	80082	CBOD 5 day	7D Qty	2.8	2.92047
2/15/2006	001	00530	Total Suspended Solids	7D Qty	3.4	11.1642
2/15/2006	001	80082	CBOD 5 day	7D Qty	2.8	8.65228
2/22/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.3747
3/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	3.28727
3/8/2006	001	00530	Total Suspended Solids	7D Qty	3.4	6.37697
4/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	2.5193
4/1/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.42618
5/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	5.04389
5/1/2006	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.4	.45783
5/8/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.81376
5/15/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.81376
5/22/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.81376
5/22/2006	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	.67585
6/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	2.48731
10/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	2.5439
10/22/2006	001	00530	Total Suspended Solids	7D Qty	3.4	5.83647
10/22/2006	001	80082	CBOD 5 day	7D Qty	2.8	3.21006
11/1/2006	001	00530	Total Suspended Solids	30D Qty	2.3	2.81074
11/1/2006	001	80082	CBOD 5 day	30D Qty	2.0	2.1375
11/22/2006	001	00530	Total Suspended Solids	7D Qty	3.4	6.17031
11/22/2006	001	80082	CBOD 5 day	7D Qty	2.8	5.03908
12/1/2006	001	80082	CBOD 5 day	30D Qty	2.0	2.07382
12/22/2006	001	00530	Total Suspended Solids	7D Qty	3.4	3.73125
12/22/2006	001	80082	CBOD 5 day	7D Qty	2.8	2.86063

Northwood Violations for August 1, 2005 - June 1, 2009

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
1/1/2007	001	00530	Total Suspended Solids	30D Qty	2.3	6.35899
1/1/2007	001	00530	Total Suspended Solids	7D Qty	3.4	7.19453
1/1/2007	001	80082	CBOD 5 day	30D Qty	2.0	3.45139
1/1/2007	001	80082	CBOD 5 day	7D Qty	2.8	4.40665
1/8/2007	001	00530	Total Suspended Solids	7D Qty	3.4	7.3429
1/8/2007	001	80082	CBOD 5 day	7D Qty	2.8	5.78253
1/15/2007	001	00530	Total Suspended Solids	7D Qty	3.4	9.78725
1/15/2007	001	80082	CBOD 5 day	7D Qty	2.8	2.86627
3/1/2007	001	00530	Total Suspended Solids	30D Qty	2.3	3.32758
3/15/2007	001	00530	Total Suspended Solids	7D Qty	3.4	3.4277
3/22/2007	001	00530	Total Suspended Solids	7D Qty	3.4	5.84707
4/1/2007	001	00530	Total Suspended Solids	30D Qty	2.3	3.91331
4/1/2007	001	80082	CBOD 5 day	30D Qty	2.0	2.11059
4/8/2007	001	00530	Total Suspended Solids	7D Qty	3.4	4.7691
4/8/2007	001	80082	CBOD 5 day	7D Qty	2.8	3.49734
4/22/2007	001	00530	Total Suspended Solids	7D Qty	3.4	6.09385
4/22/2007	001	80082	CBOD 5 day	7D Qty	2.8	2.80317
5/1/2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2	2.5
5/1/2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.4	.47263
5/1/2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	.64322
6/1/2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2	2.185
6/6/2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.77
6/15/2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3	3.5
9/1/2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	.60409
12/1/2007	001	00530	Total Suspended Solids	30D Qty	2.3	3.32285
12/1/2007	001	80082	CBOD 5 day	30D Qty	2.0	2.09116
12/15/2007	001	00530	Total Suspended Solids	7D Qty	3.4	6.20362
12/15/2007	001	80082	CBOD 5 day	7D Qty	2.8	2.9157
12/22/2007	001	00530	Total Suspended Solids	7D Qty	3.4	4.30582
1/1/2008	001	00530	Total Suspended Solids	30D Qty	2.3	4.66312
1/1/2008	001	80082	CBOD 5 day	30D Qty	2.0	2.76456
1/1/2008	001	80082	CBOD 5 day	7D Qty	2.8	4.46327
1/8/2008	001	00530	Total Suspended Solids	7D Qty	3.4	6.6616
1/15/2008	001	00530	Total Suspended Solids	7D Qty	3.4	6.6616
2/1/2008	001	00530	Total Suspended Solids	30D Qty	2.3	7.08647
2/1/2008	001	00530	Total Suspended Solids	7D Qty	3.4	5.15214
2/1/2008	001	80082	CBOD 5 day	30D Qty	2.0	6.32387
2/1/2008	001	80082	CBOD 5 day	7D Qty	2.8	4.37932
2/8/2008	001	00530	Total Suspended Solids	7D Qty	3.4	5.23087
2/8/2008	001	80082	CBOD 5 day	7D Qty	2.8	7.84631
2/15/2008	001	00530	Total Suspended Solids	7D Qty	3.4	7.84631
2/15/2008	001	80082	CBOD 5 day	7D Qty	2.8	9.02325
2/22/2008	001	00530	Total Suspended Solids	7D Qty	3.4	10.1165
2/22/2008	001	80082	CBOD 5 day	7D Qty	2.8	4.04662

Northwood Violations for August 1, 2005 - June 1, 2009

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
3/1/2008	001	00530	Total Suspended Solids	30D Qty	2.3	5.15933
3/1/2008	001	00530	Total Suspended Solids	7D Qty	3.4	5.21119
3/1/2008	001	80082	CBOD 5 day	30D Qty	2.0	4.89392
3/1/2008	001	80082	CBOD 5 day	7D Qty	2.8	3.25699
3/8/2008	001	00530	Total Suspended Solids	7D Qty	3.4	5.18999
3/15/2008	001	00530	Total Suspended Solids	7D Qty	3.4	5.25207
3/15/2008	001	80082	CBOD 5 day	7D Qty	2.8	10.1102
3/22/2008	001	00530	Total Suspended Solids	7D Qty	3.4	4.98409
3/22/2008	001	80082	CBOD 5 day	7D Qty	2.8	3.61346
4/1/2008	001	00530	Total Suspended Solids	30D Qty	2.3	3.2129
4/1/2008	001	00530	Total Suspended Solids	7D Qty	3.4	6.33382
4/1/2008	001	80082	CBOD 5 day	30D Qty	2.0	2.32851
4/8/2008	001	80082	CBOD 5 day	7D Qty	2.8	4.15956
5/1/2008	001	00530	Total Suspended Solids	30D Qty	2.3	3.9733
5/1/2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2	2.15
5/1/2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.4	.82242
5/1/2008	001	80082	CBOD 5 day	30D Qty	2.0	2.11229
5/8/2008	001	00530	Total Suspended Solids	7D Qty	3.4	6.98938
5/8/2008	001	80082	CBOD 5 day	7D Qty	2.8	4.24355
5/15/2008	001	00530	Total Suspended Solids	7D Qty	3.4	3.99393
5/15/2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	1.29803
5/15/2008	001	80082	CBOD 5 day	7D Qty	2.8	2.8956
6/1/2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.4	.64213
6/1/2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	1.09042
12/22/2008	001	00530	Total Suspended Solids	7D Qty	3.4	3.78879
1/1/2009	001	00530	Total Suspended Solids	7D Qty	3.4	4.98106
1/1/2009	001	80082	CBOD 5 day	7D Qty	2.8	3.63617
2/1/2009	001	00530	Total Suspended Solids	30D Qty	2.3	3.46328
2/1/2009	001	80082	CBOD 5 day	30D Qty	2.0	2.21739
2/8/2009	001	00530	Total Suspended Solids	7D Qty	3.4	8.90611
2/8/2009	001	80082	CBOD 5 day	7D Qty	2.8	4.00775
3/1/2009	001	00530	Total Suspended Solids	30D Qty	2.3	4.78519
3/1/2009	001	00530	Total Suspended Solids	7D Qty	3.4	4.62149
3/1/2009	001	80082	CBOD 5 day	30D Qty	2.0	2.94097
3/1/2009	001	80082	CBOD 5 day	7D Qty	2.8	3.37368
3/8/2009	001	00530	Total Suspended Solids	7D Qty	3.4	9.81451
3/8/2009	001	80082	CBOD 5 day	7D Qty	2.8	4.41653
4/1/2009	001	00530	Total Suspended Solids	30D Qty	2.3	3.46517
4/1/2009	001	80082	CBOD 5 day	30D Qty	2.0	3.00534
4/1/2009	001	80082	CBOD 5 day	7D Qty	2.8	3.78735
4/8/2009	001	00530	Total Suspended Solids	7D Qty	3.4	6.09309
4/8/2009	001	80082	CBOD 5 day	7D Qty	2.8	4.36672
4/15/2009	001	00530	Total Suspended Solids	7D Qty	3.4	3.82739
5/1/2009	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.4	.46911
5/1/2009	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.6	.67116

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PG00103

Facility Name Chapel Hill Expiration Date 9/30/2016

Facility Address 2365 St Johns Road Date 5-21-09 Time am / pm

City Maria Stein County Ohio Township _____

Name and Address of Owner Mercer County Commissioners

Person Contacted Mr James Karafit Owner Phone 419 586 3178

Flow: Design 20,000 GPD Present _____ GPD (metered - estimated)

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

OEPA Personnel Michelle Sharp and Andy Gall District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear	X	None		Colorless
1	Mild	X				X	
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 _____ fair X 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 X Y N Parameters: TSS, CBOD

Chronic Violations _____

5. X _____ Adequate plant safety

6. _____ X Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Chapel Hill

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: <u>1/month</u>
		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> Adequate Aeration: Y. <u>X</u> N ___
Final Settling	X	Clarifier	<u>High Sludge Blanket</u>
	X	Sludge Return	In <u>X</u> Out
	X	Surface Skimmer	In <u>X</u> Out
	X	Fixed Media Clarifier <u>Upflow</u>	
Tertiary Treatment		Surface Sand Filter	
		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	X	Aerated Storage Tank	
	X	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. 2P000101

Facility Name Wagner Subdivision Expiration Date Sept 30, 2011

Facility Address St Anthony Rd Date 5-21-09 Time (am) / pm

City Celina County Mercer Township _____

Name and Address of Owner Mercer County Commissioners

Person Contacted Mr James Karafit Owner Phone 419 586 3178

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

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

OEPA Personnel Michelle Sharp + Andy Gall 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: Hardin

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

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 _____ fair X 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 X Y _____ N _____ Parameters: _____

Chronic Violations _____

5. X _____ Adequate plant safety

6. _____ X _____ Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Wagner Subdivision

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: <u>1/month</u>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	X	Plant Timer <u>X</u> <u>Y</u> ___ N Motor/ Blower Unit	Cycle Time:
Secondary Treatment	X	Aeration Tank	Color: <u>Light</u> Adequate Aeration: Y <u>X</u> N ___
Final Settling	X	Clarifier	<u>Significant amount of Solids</u>
	X	Sludge Return	In <u>X</u> Out <u>Light in Color</u>
	X	Surface Skimmer	In <u>X</u> Out
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<u>Flooded, Solids, Algae</u> <u>Leaking</u>
		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 Expiration Date July 31, 2010

Facility Address State Route 29 Date 5-21-09 Time am / pm

City Celina County Mercer Township _____

Name and Address of Owner Mercer County Commissioners

Person Contacted Mr James Karafit Owner Phone 419 586 3178

Flow: Design 72,000 GPD Present _____ GPD (metered - estimated)

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

OEPA Personnel Michelle Sharp + Andy Gall 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 _____ good X fair _____ poor operation
 b. Plant has _____ excellent _____ good X fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ good _____ fair Y 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: Ammonia

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: <u>1 month</u>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	
Aeration Equipment		Plant Timer <u>X</u> Y ___ N	Cycle Time:
	X	Motor/ Blower Unit	
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: Y <u>X</u> N ___
Final Settling	X	Clarifier	<u>High Sludge Blanket</u>
	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	<u>Flooded, Solids</u>
		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		Pest Aeration	
		Spray Irrigation	
		Other	