



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8458
www.epa.state.oh.us

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

Re: Williams County
Lakeland Woods Subdivision
NPDES Permit

March 31, 2009

Williams County Commissioners
One Courthouse Square
Bryan, Ohio 43506

Dear Commissioners:

On March 18, 2009, an operation and maintenance inspection was made of the wastewater treatment plant serving Lakeland Woods Subdivision. The treatment facility is located along State Route 34 in Pulaski Township, Williams County. Mr. Willis Allomong was present and provided information regarding the operation of the treatment plant.

At the time of the inspection, both the "old" and "new" treatment facilities were in operation. The contents of the aeration tanks were light brown due to recent wash-out at the plant. One of the four sand filters was plugged with "washed out" solids and the other three filters were operational. The final discharge from the plant was visually clear. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

We recommend that hour meters be installed at the dosing pumps to more accurately measure the plant flow. Our review of your discharge monitoring reports (1/1/2008 to 3/1/2009) for this facility indicated effluent and frequency violations. Please refer to the enclosed violation table.

Our completed inspection form is enclosed for your review. If you have any questions or comments feel free to call Jason Ko at (419) 373-3021.

Yours truly,

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

/csl
Enclosures
pc: NWDO File

**OHIO ENVIRONMENTAL PROTECTION AGENCY
OPERATION AND MAINTENANCE INSPECTION**

NPDES Permit No. 2PG00087

Facility Name: The Lakeland Woods Subdivision Expiration Date: December 31, 2011

Facility Address: State Route 34 Date: 3/18/2009 Time: 1:15 pm

City: Bryan County: Williams Township: Pulaski

Name and Address of Owner: Williams County commissioners, Courthouse, Bryan, OH 43506

Person Contacted: Mr. Willis Allomong, Operator Phone: (419) 636-8739

Flow: Design: 30,000 GPD Present GPD

Trib. Pop. 60 homes (estimated) Weather at time of inspection: Temp Cool & Clear

OEPA Personnel: Jason Ko 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 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.) - N/A

IN OUT
 X Chlorination
 X Dechlorination
 U.V

- | | | | | | | |
|----|----------|-------------------|-----------------------------------|---------------------|--------------------------------------|-------------------|
| | Yes | No | | Yes | No | Parameters |
| 4. | <u>X</u> | <u> </u> | Compliance with NPDES Permit | Periodic Violations | <u> </u> | <u> </u> |
| 5. | <u>X</u> | <u> </u> | Adequate Plant Safety | Chronic Violation | <u> </u> | <u> </u> |
| 6. | <u>X</u> | <u> </u> | Operation and Maintenance Service | Name: | <u>Williams County Sanitary Dept</u> | |

Frequency of Visits: Daily

Facility Name: The Lakeland Woods

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 3/year
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Flow splitter with 1/3 to OLD plant & 2/3 to NEW plant
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u> </u> <u>N</u>	Cycle Time: 22 hrs "ON" & 2 hrs "OFF"
	3	Motor/ Blower Unit	
Secondary Treatment	3	Aeration Tank	Color: very light brown Adequate Aeration: Y <u>X</u> N <u> </u>
Final Settling	2	Clarifier	With 3 hoppers
	3	Sludge Return	In <u>X</u> Out <u> </u> Returning light solids
	2	Surface Skimmer	In <u>X</u> Out <u> </u> Returning clear
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	I was plugged (solids washed out 3/12/09) & 3 operational
		Polishing Pond	
		Other	
Disinfection	Out	Chlorine	
	Out	Dechlorination	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Other	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	Need to install hour meters to estimate the flow
Sludge Handling	1	Aerated Storage Tank	Out
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
	Out	Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
2PG00087*ED	January 2008	001	00530	Total Suspended Solids	1/Week	1	0	01/15/2008
2PG00087*ED	January 2008	001	00610	Nitrogen, Ammonia (NH3)	1/2Weeks	1	0	01/15/2008
2PG00087*ED	January 2008	001	80082	CBOD 5 day	1/Week	1	0	01/15/2008
2PG00087*ED	January 2008	001	00400	pH	1/Week	1	0	01/15/2008
2PG00087*ED	January 2008	001	00300	Dissolved Oxygen	1/Week	1	0	01/15/2008

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PG00087*ED	April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	6.035	4/1/2008
2PG00087*ED	April 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	6.0	7.27	4/1/2008
2PG00087*ED	April 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.45	.68527	4/1/2008
2PG00087*ED	April 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.68	.82551	4/1/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	30D Conc	10	11.7	4/1/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	7D Conc	15	16.8	4/1/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	30D Qty	1.1	1.32854	4/1/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	7D Qty	1.7	1.90764	4/1/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	7D Conc	15	24.	4/8/2008
2PG00087*ED	April 2008	001	80082	CBOD 5 day	7D Qty	1.7	2.7252	4/8/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	30D Conc	12	26.75	5/1/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	7D Conc	18	22.	5/1/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	30D Qty	1.4	3.03746	5/1/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	7D Qty	2.0	2.4981	5/1/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2.0	9.16	5/1/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	11.9	5/1/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	1.04012	5/1/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	1.35125	5/1/2008
2PG00087*ED	May 2008	001	31616	Fecal Coliform	7D Conc	2000	7200.	5/1/2008
2PG00087*ED	May 2008	001	80082	CBOD 5 day	30D Conc	10	11.25	5/1/2008
2PG00087*ED	May 2008	001	80082	CBOD 5 day	7D Conc	15	38.	5/1/2008
2PG00087*ED	May 2008	001	80082	CBOD 5 day	30D Qty	1.1	1.27744	5/1/2008
2PG00087*ED	May 2008	001	80082	CBOD 5 day	7D Qty	1.7	4.3149	5/1/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	6.42	5/15/2008
2PG00087*ED	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	.72899	5/15/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	7D Conc	18	70.	5/22/2008
2PG00087*ED	May 2008	001	00530	Total Suspended Solids	7D Qty	2.0	7.9485	5/22/2008