



State of Ohio Environmental Protection Agency

Southwest District Office

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Dayton, Ohio 45402-2911

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

February 10, 2009

Hickory Hills Lake Company
Attn: Mr. Dick Wallin, Treasurer
5900 Hickory Hills Drive
Hillsboro, OH 45133

Correct
**RE: Hickory Hills Lake Co. WWTW/Compliance Evaluation Inspection
NPDES Permit No. OH0137707/OEPA PERMIT NO. 1PX00063*AD**

Ladies & Gentlemen:

On February 2, 2009, I conducted a NPDES Compliance Evaluation Inspection at the Hickory Hills Lake Company wastewater treatment works (WWTW). Brandon Leeth, Bob Creamer (contract operators of record) and Ernie Napier (maintenance) were present during this inspection. The purpose of the inspection was to evaluate compliance with the terms and conditions of the NPDES Permit. A copy of the report is provided within.

As noted in the report, there are few deficient areas that need addressed without delay. **Please pay special attention to the "items requiring correction" shown in bold type; for there are compliance schedules associated with these items.**

Thank you for your time extended during the inspection process. If you have any questions, please feel free to contact me by phone at (937) 285-6029 or by e-mail at joshua.jackson@epa.state.oh.us.

Respectfully,

Joshua Jackson

Environmental Specialist II
Division of Surface Water

Cc: Ernie Napier, Hickory Hills Lake Co. (w/report)
Brandon Leeth (w/report)

Enclosures



Permit #: 1PX00063*AC
 NPDES #: OH0137707

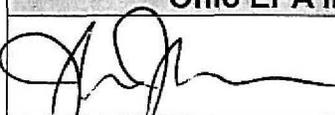
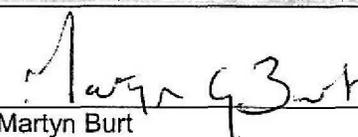


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NPDES Compliance Inspection Report
 Semi-Public Sewage Disposal Inspection Form

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PX00063*AD	OH0137707	2/2/2009	C	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Hickory Hill Lake Company WWTW 5900 Hickory Hills Drive Hillsboro, Highland County	10:20 a.m.	7/1/2007
	Exit Time	Permit Expiration Date
	12:00 p.m.	6/30/2012
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Ernie Napier, Maintenance		937-466-2081
Name(s), Address and Title(s) of Operator of Record		Phone Number(s)
Brandon Leeth and Bob Creamer, Contract operators		937-393-4831
Name, Address and Title of Responsible Official		Phone Number
Dick Wallin, Treasurer Hickory Hill Lake Company 5900 Hickory Hills Drive Hillsboro, OH 45133		727-869-7604

Ohio EPA Inspector	Ohio EPA Reviewer
 Joshua Jackson Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
2-2-09 Date	2/10/09 Date

Permit # : 1PX00063*AD

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Average Daily Design Flow:	21,000 Gallons/Day
Plant Serves:	20-25 perm. houses / 100 seasonal units
Average Daily Flow: (Period of Review):	7,000 Gallons/Day (January - December 2008)
Method of flow monitoring:	water meter readings
Type of alarms for plant:	high level alarms

Pretreatment

Type of Pretreatment: **Trash Trap**
Does the Trash Trap need pumped: **No**
Maintenance of pretreatment components is: **Good**

Comments/Status:

Facility just started up in November 2008

Secondary Treatment (Aeration)

Color of sludge: **Light Brown**
Quality of Sludge: **Thin**
Foam: **Light (white)**
Odor: **No objectionable odor present**

	Yes	No		Yes	No
Aeration is taking place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Blowers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skimmers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sludge return is operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Maintenance of aerating equipment is...**Good**

Comments/Status:

Secondary Treatment (Settling)

Clarity: **Clear**
Condition of Weir: **Some algae in the effluent trough**
Weir is level: **Yes**

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Effluent in weir: **Clear**
Clarifier walls need scraped: **Yes**

Overall maintenance of settling components is: **Good**

Comments/Status:

Tertiary Treatment

	Yes	No		Yes	No
Surface sand Filters: Slow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subsurface	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distribution box operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds alternated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Beds raked	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UV present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dechlorination present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Overall maintenance of components is: **Good**

Comments/Status:

Sludge Handling/Storage Disposal

Hauler name: **Theener Septic Disposal**
Disposal Site: **Rocky Fork WWTW**
Sludge wasted from: **Aeration basin to sludge holding tank**
How often is sludge wasted: **Sludge has not been wasted yet**
Sludge drying beds: **No** Sludge holding tank: **Yes**

Overall maintenance of components is: **Good**

Comments/Status:

Plant Discharge

Discharge point is a: **Stream**
Name of discharge point: **Heads Branch**
Discharge is visible: **Yes** Quality of Effluent: **Clear**

Comments/Status:

Inspection Findings
(Items for Correction in Bold Type)

Hickory Hills Lake Company wastewater treatment works (WWTW)
EFFLUENT LIMIT VIOLATIONS
(Period of Review: January – December 2008)

7D = Weekly 30D = Monthly
1D = Daily Conc. = Concentration (mg/l) Qty.= Quantity (Kg/Day)

Reporting Period	Parameter	Limit Type	Limit	Reported Value
August 2008	Chlorine, Total Residual	1D Conc	0.5	.63
September 2008	Chlorine, Total Residual	1D Conc	0.5	2.2
October 2008	Chlorine, Total Residual	1D Conc	0.5	1.56

Please inform this office, in writing, within ten days of receipt of this notification as to the reasons for the above referenced violations, as well as a description of the actions taken or proposed to prevent any further violations. Your response should include the dates, either actual or proposed, for completion of the actions. Future violations must be reported as required by the NPDES Permit as detailed in Part III.12 titled "Non-compliance Notification".

Construction on the new Hickory Hills Lake Co. WWTW was completed in November 2008. This upgrade was approved under PTI #644580, issued by Ohio EPA. This approval was for an extended aeration system capable of treating an average daily design flow of 21,000 gpd. Part of this design included utilizing part of the existing WWTW as an equalization basin.

During the inspection, it appeared that the system construction conformed with the approved detailed plans. However, the slow surface sand filter concrete wall joints had pulled apart from settling. There were large gaps in the joints where the caulk filler had been stretched too far. There were also holes in the concrete walls; presumably where a crane or other machine had lowered them into place. With the current situation, it would be impossible to flood the sand filters without bypassing occurring. Actually, the dosing pump was turned on for approximately 5 minutes and there was bypassing occurring. **The gaps in the sand filter walls must be filled without delay, but no later than February 20, 2009.**

The effluent from the WWTW was clear and free of solids. There were solids in the receiving stream (Heads Branch) below the outfall pipe, but it was likely attributed to historical problems rather than the current condition of the plant.

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Operations

According to the Hickory Hills Lake Co. NPDES permit, the WWTW is required to be under the supervision of a Class I wastewater operator. Mssrs. Brandon Leeth and Bob Creamer (both Class III wastewater operators) are serving as the "Operators of Record" as defined in Ohio Administrative Code 3745-07. Mr. Ernie Napier is the Hickory Hills Lake Co. representative, who oversees the day to day operations of the facility.

According to OAC 3745-07, this facility could be re-rated as a "Class A" facility. If the Hickory Hills Lake Co. intends to pursue this re-rating, an application to modify the existing NPDES permit would need to be submitted to the Ohio EPA Southwest District Office. I have already forwarded the necessary information to Dick Wallin (Treasurer, Hickory Hills Lake Co.). Mr. Napier stated that he is intent on taking the test for the "Class A" wastewater license.

During the inspection, I left copies of OAC 3745-07-09 "Record Keeping Requirements" with Mssrs. Leeth, Creamer and Napier. This section of the regulations gives direction on keeping an operations and maintenance log book at the facility. At the next inspection, it is anticipated that the log book for this facility will meet the requirements of the regulation.

Flow Meter

Mr. Napier has been using water meter readings to report daily discharge flow rates for the WWTW. The new WWTW has an ultrasonic flow meter with a Parshall flume. This flow meter shall be used to measure future daily discharge flow rates.