



**Environmental
Protection Agency**

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



1PG0010120090331

SHELBY

HICKORY DELL ESTATES WWTP

LEIBFRITZ, SANDRA 2009/03/31



State of Ohio Environmental Protection Agency

Southwest District Office

401 East Fifth Street
Dayton, Ohio 45402-2911

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

March 31, 2009

Mr. John Bruns
Shelby County Sewer District
3475 Canal Road #1
Minster, Ohio 45865

CERTIFIED LETTER

**RE: Hickory Dell WWTP- NPDES No. 1PG00101*BD/PH0127205
Compliance Evaluation Inspection – Shelby County**

Dear Mr. Bruns:

On March 23, 2009, Sandra Leibfritz conducted an inspection at Hickory Dell WWTP located at 14212 Charm Hill Drive, Sidney, Ohio. Mike Buchanan was representing the facility. The clarifier area was rated as marginal and the effluent/receiving stream area was rated as unsatisfactory. All other areas that were evaluated were rated as satisfactory. Details on these ratings may be found in the enclosed inspection report.

There are three (3) items that require a response. We ask for a response no later than April 17, 2009. If you should have any questions about the inspection, please call Ms. Leibfritz at (937) 285-6104 or me at (937) 285-6034.

Sincerely,

Martyn G. Burt
Environmental Supervisor
Division of Surface Water

cc: Shelby County Health Department



Permit #: 1PG00101
 NPDES #: OH0127205



State of Ohio Environmental Protection Agency
 Southwest District Office

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
1PG00101*BD	OH0127205	03/23/2009	C	S	11

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Hickory Dell Estates WWTP 14212 Charm Hill Drive Sidney, OH	10:50 a.m.	October 1, 2005
	Exit Time	Permit Expiration Date
	12:30 p.m.	September 30, 2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mike Buchanan, Assistant Director	(419) 628-3411	
Name(s), Address and Title(s) of Operator of Record	Phone Number(s)	
Name, Address and Title of Responsible Official	Phone Number	
John Bruns, Director of Shelby County Sewer District 3475 Canal Road #1 Minister, OH 45865	(419) 628-3411	

Ohio EPA Inspector	Ohio EPA Reviewer
<i>Sandra D. Leibfritz</i> 3/31/09 Date	<i>Martyn Burt</i> 3/31/09 Date
Sandra D. Leibfritz Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Average Daily Design Flow:	0.02 MGD
Plant Serves:	
Average Daily Flow: (Period of Review):	0.02 MGD (January 2008 through December 2008)
Method of flow monitoring:	v-notch weir w/ ultrasonic sensor
Type of alarms for plant:	visual

Comments/Status:

The wastewater treatment plant consists of a trash trap, equalization tanks, aeration tanks, clarifier, dosing chamber, rapid sand filters (Dynasand) ultraviolet disinfection, post aeration (in a metering chamber). The PTI (No. 05-11753) was approved on November 29, 2001.

The average monthly flow data for February 2008, March 2008 and May 2008 is above the design flow as follows: 0.03 MGD for Feb 2008, 0.04 MGD for March 2008 and 0.03 MGD for May 2008.

Pretreatment

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

Comments/Status:

Septage is hauled to the Lake Loramie WWTP.

Equalization Basin

Two Pumps present: **Yes**
Both Pumps operational: **Yes**
Alarm present: **Yes**
Alarm operational: **Yes**
Maintenance of equalization basin is: **Satisfactory**

Comments/Status:

The operator reported that both pumps were operational. There is a dedicated blower to the equalization basin. Aeration was occurring. The alarm is visual.

**Secondary Treatment
 (Aeration)**

Color of sludge: **Medium Brown**
 Quality of Sludge: **Medium**
 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 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"/>	Condition of grating: good		

Maintenance of aerating equipment is...**Satisfactory**

Comments/Status:

There are two blowers to the aeration tanks. Both were reported as operational.
 Both RAS lines were returning brown solids. The skimmer line was returning clear wastewater.

**Secondary Treatment
 (Settling)**

Clarity: **Bulking Solids**
 Condition of Weir: **Excessive Algae/Solids Build Up**
 Weir is level: **Yes**
 Effluent in weir: **Light Solids**
 Clarifier walls need scraped: **No**

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

Comments/Status:

The clarifier walls are scraped weekly. This area was rated as marginal due to the bulking solids and solids overflowing the weir.

Tertiary Treatment

	Yes	No		Yes	No
Slow Surface Sand Filters:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rapid Gravity Filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Beds alternated	<input type="checkbox"/>	<input type="checkbox"/>	Dosing Chamber	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Beds raked	<input type="checkbox"/>	<input type="checkbox"/>	2 pumps operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Subsurface Sand Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Visual alarm operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UV present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chlorination present	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Overall maintenance of components is: **Satisfactory**

Comments/Status:

The uv was off-line due to the season. Disinfection is only required May 1st through October 31st. The bulb is stored in the shed.
 Dynasand was observed in the uv tank.

Sludge Handling/Storage Disposal

Hauler name: Shelby County Sewer District
 Disposal Site: Lake Loramie WWTP
 Sludge wasted from: Sludge Holding Tank
 How often is sludge wasted: 1-2 times a month

Sludge drying beds: **No** Sludge holding tank: **Yes**

Overall maintenance of components is: **Satisfactory**

Comments/Status:

Plant Discharge

Discharge point is a: **Stream**
 Name of discharge point: **Tributary of Brush Creek**
 Discharge is visible: **Yes**
 Quality of Effluent: **Clear with Solids Present**

Overall quality of effluent/receiving stream: **Unsatisfactory**

Comments/Status:

Immediately beneath the outfall and for approximately 10 feet downstream of the outfall, solids were observed on the bottom of the creek in violation of Part III, Item 2 (General Effluent Limitations). Ms. Leibfritz showed the solids to Mike Buchanan. This area was rated as unsatisfactory due to solids deposition in the creek.

EFFLUENT LIMIT VIOLATIONS
(Period of Review: January 2008 through December 2008)

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

Hickory Dell WWTP
Final Effluent Limitation Violations For Outfall OO1

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2008	Total Suspended Solids	30D Qty	0.9	1.40416	3/1/2008
March 2008	Total Suspended Solids	7D Qty	1.4	1.40416	3/8/2008

Note: SCSD provided Noncompliance Notification (letter dated April 30, 2008)

Items Requiring a Response

1. In October 2000, SCSD conducted an I/I study for Hickory Dell Subdivision. However, in January 2008 through May 2008, Hickory Dell reports maximum flow ranging from ranging from 0.07 to 0.09 MGD. In addition, flows were reported above the average daily design for 28 out of 31 days in March 2008 causing violations of Hickory Dell's NPDES permit. What actions have been taken or will be taken to reduce the amount of I/I from the collection system.
2. During the inspection, Ms. Leibfritz observed Dynasand in the ultraviolet tank. What is the cause of the filter loosing sand?
3. During the inspection, Ms. Leibfritz observed solids in immediately beneath the outfall and downstream of the outfall for approximately 10 feet. What is the cause of the solids in the creek?



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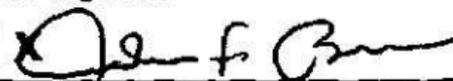
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SHELBY COUNTY SEWER DISTRICT
3475 CANAL ROAD #1
MINSTER OH 45865

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