



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: Richland County
Briarwood Estates MHP
NPDES Permit

March 4, 2009

Mr. Steve Hammer, Manager
Briarwood Estates MHP
1835 N. Lexington-Springmill Road
Mansfield, Ohio 44906

Dear Mr. Hammer:

On February 5, 2009, an inspection was made of the wastewater treatment facilities serving the Briarwood Estates MHP located on Lexington-Springmill Road just north of the City of Ontario. At the time of the inspection all major treatment units were in operation and appeared to be functioning normally. A clear effluent was being discharged to the receiving stream.

During the inspection it was noted that no air was being supplied to the sludge holding tank. The tank was frozen solid on the surface. Air is typically supplied to the tank to help digestion of the bacteria as well as help reduce odors. In the winter, the addition of air should also provide enough turbulence to keep ice from forming. The ice in the tank should be broken apart to allow the addition of more sludge as well as allow for decanting of water off of the top when needed. It was also noted that no flow meters exist at the treatment plant. We recommend that pump run time meters be installed on the sand filter dosing station in order to calculate an accurate average daily flow through the treatment plant.

A review of the discharge monitoring reports submitted to our office for the time period of November 2007 through January 2009 revealed several violations of the limits contained in your NPDES permit. A printout of these violations is attached for your review.

We have also reviewed your annual sludge reports that have been submitted to our office for the years 2007 and 2008. The reports indicated that no sludge was removed from the facility during either year. Our office is concerned that you may not be reporting this information correctly. Any sludge removed from the plant needs to be reported. This would include any material that is cleaned off of the sand filter beds. During our previous inspection in November of 2007 the sand filter beds were being used to dewater sludge. This sludge was cleaned from the filters at some point and should have been reported to our office on the annual reports. Please contact our office if you have any questions regarding this reporting.

Mr. Steve Hammer
March 4, 2009
Page 2

If you have any questions please call me at 419-373-3070.

Sincerely,



Walter Ariss
Environmental Specialist II
Division of Surface Water

/csl

Enclosure

pc: NWDO-DSW file w/enc.
Mrs Diane Smith, c/o Granite Creations
Chris Henthorn, Clean Water Service, Inc. w/enc.

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PY00018

Facility Name Birchwood Estates MHP Expiration Date 9/30/2010

Facility Address 1835 N. Lee-Springmill Rd Date 3/5/09 Time 11:30 am

City Dufur County Richland Township _____

Name and Address of Owner River Smith-

Person Contacted _____ Owner Phone _____

Flow: Design 30,000 GPD Present 15,000-25,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 30° sunny

OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	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: unamed Cr. Black Fork Mubian

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent good _____ fair _____ poor operation
 b. Plant has _____ excellent good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent good _____ 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 <input checked="" type="checkbox"/>	OUT <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	_____
_____	_____
_____	_____

Yes No

4. _____ Compliance with NPDES Permit

Periodic Violations Y _____ N Parameters: TSS, NH₃, COD

Chronic Violations _____

5. _____ Adequate plant safety

6. _____ Operation and Maintenance Service Name Clear Water Services

Frequency of Visits 1/week

Facility Name: Briarwood Estates MHP

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	<input checked="" type="checkbox"/>	Trash Trap	Pumping Frequency: <u>1/quarter</u>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	<input checked="" type="checkbox"/>	Flow Equalization	<u> alot of flow coming in → I/E ?</u>
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer Y <u>N</u> timers not being used/blowers Motor/ Blower Unit <u>or manual</u>	Cycle Time: <u>one blower on, one back up</u>
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: <u>goose color</u> Adequate Aeration: Y <input checked="" type="checkbox"/> N <u> </u>
Final Settling	<input checked="" type="checkbox"/>	Clarifier	<u>Several feet of clarity</u> <u>effluent weir needs leveled so</u> <u>water discharges across entire length</u>
	<input checked="" type="checkbox"/>	Sludge Return	In <input checked="" type="checkbox"/> Out <u> </u>
		Surface Skimmer	In <input checked="" type="checkbox"/> Out <u> </u>
		Fixed Media Clarifier	
Tertiary Treatment	<input checked="" type="checkbox"/>	Surface Sand Filter	<u>two filters clean, one two full of</u> <u>snow</u>
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	<u>out</u>
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder	<u>out</u>
		Ultraviolet (UV)	
Flow Metering <u>no metering</u>		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	<input checked="" type="checkbox"/>	Raw Wastewater (type) <u>Flow ER</u>	<u>okay</u>
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	<u>okay</u>
Sludge Handling	<input checked="" type="checkbox"/>	Aerated Storage Tank	<u>air not on, surface frozen solid</u>
		Sludge Drying Bed	
Sludge Disposal ?		Municipal POTW	<u>no sludge hauling reported</u>
		Landfill	<u>for last two years - need to</u>
		Land Application	<u>include material removed from filters</u>
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Briarwood Estates MHP NPDES Permit limit violations
 Novemebr 2007 through January 2009

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PY00018*CD	January 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	5.7	1/4/2008
2PY00018*CD	November 2008	001	00530	Total Suspended Solids	1D Conc	18.	29.	11/21/2008
2PY00018*CD	November 2008	001	00530	Total Suspended Solids	1D Qty	2.04	3.29295	11/21/2008
2PY00018*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	11.1	11/21/2008
2PY00018*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	5.625	11/1/2008
2PY00018*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.51	1.26041	11/21/2008
2PY00018*CD	November 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.34	.63616	11/1/2008
2PY00018*CD	November 2008	001	80082	CBOD 5 day	1D Conc	15	24.	11/21/2008
2PY00018*CD	November 2008	001	80082	CBOD 5 day	1D Conc	15	22.	11/24/2008
2PY00018*CD	November 2008	001	80082	CBOD 5 day	30D Conc	10	11.5	11/1/2008
2PY00018*CD	November 2008	001	80082	CBOD 5 day	1D Qty	1.70	2.7252	11/21/2008
2PY00018*CD	December 2008	001	00530	Total Suspended Solids	1D Conc	18.	78.	12/23/2008
2PY00018*CD	December 2008	001	00530	Total Suspended Solids	30D Conc	12	26.	12/1/2008
2PY00018*CD	December 2008	001	00530	Total Suspended Solids	1D Qty	2.04	5.9046	12/23/2008
2PY00018*CD	December 2008	001	00530	Total Suspended Solids	30D Qty	1.36	1.9928	12/1/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	13.2	12/3/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	9.54	12/19/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	11.37	12/1/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.51	1.19909	12/3/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.51	.64996	12/19/2008
2PY00018*CD	December 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.34	.92452	12/1/2008
2PY00018*CD	December 2008	001	80082	CBOD 5 day	1D Conc	15	73.	12/23/2008
2PY00018*CD	December 2008	001	80082	CBOD 5 day	30D Conc	10	25.75	12/1/2008
2PY00018*CD	December 2008	001	80082	CBOD 5 day	1D Qty	1.70	5.5261	12/23/2008
2PY00018*CD	December 2008	001	80082	CBOD 5 day	30D Qty	1.14	1.95685	12/1/2008