



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Road  
Bowling Green, OH 43402-9398

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

Re: Richland County  
Richland County Board of Commissioners  
Harp Subdivision NPDES Permit

August 12, 2008

Richard Freeman  
1740 Fleming Falls Road  
Mansfield, Ohio 44903

Dear Mr. Freeman,

On July 31, 2008, an inspection was made of the wastewater treatment facilities serving the Harp Subdivision located on the Frontier Trail, Mansfield, Richland County. Ms. Lynn Miller, your head operator, was present to provide information and answer any questions. At the time of the inspection all treatment units were in operation and no major concerns were noted.

A review of the discharge monitoring reports submitted for the months of February through June 2008 revealed numerous violations of the limits contained in your NPDES permit. The majority of these violations were for exceeding the loading limitations in the permit. Excessive flow rates at the treatment plant are the leading cause for these violations. The plant continues to experience remarkably high flow rates during rain events. Flow rates in March exceeded 1.0 million gallons per day. A printout of these violations is included for your review.

You indicated that a project had been completed this spring to slip line a large portion of the sewers throughout the area tributary to the treatment plant. Ten house laterals were also lined as part of the project. It is hoped that this will greatly reduce the peak flow rates at the treatment plant. Please be aware that the next NPDES permit renewal will include a compliance schedule for either the installation of flow equalization facilities or abandonment of the treatment plant by tying into the City of Mansfield sanitary sewer system.

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

Sincerely,

Walter Ariss  
Environmental Specialist II  
Division of Surface Water

/lb

Enclosed

pc: ~~NWDO-DSW-File w/enclosure~~  
Richland County Commissioners w/enclosure

OHIO ENVIRONMENTAL PROTECTION AGENCY  
 OPERATION AND MAINTENANCE INSPECTION  
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PG00075

Facility Name Harp Subdivision Expiration Date 6/30/2009  
 Facility Address 1714 Frontier Trail Date 7/31/08 Time 10:30 am  
 City Mansfield County Richland Township \_\_\_\_\_  
 Name and Address of Owner Richland County  
 Person Contacted Rick Freeman Owner Phone \_\_\_\_\_  
 Flow: Design 40,000 GPD Present 60,000 dry weather GPD (metered - estimated)  
 Trib. Pop. \_\_\_\_\_ (actual - estimated) Weather at time of inspection: Temp 76° 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: 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  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	OUT	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination Tablets
_____	_____	Dechlorination Tablets <u>liquid</u>
_____	_____	U.V.

Yes No

4.  Compliance with NPDES Permit

Periodic Violations Y N Parameters: \_\_\_\_\_  
 Chronic Violations  loading exceedences

5.  Adequate plant safety

6.  Operation and Maintenance Service Name \_\_\_\_\_

Frequency of Visits \_\_\_\_\_

Facility Name: Harp Substation

Process	# Units	Unit	If Needed - Description and Comments
Preliminary		Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
	<input checked="" type="checkbox"/>	Comminutor	extremely old unit
		Flow Equalization	
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N	Cycle Time:
		Motor/ Blower Unit <i>running</i>	
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: color weak / sludge appears old Adequate Aeration: <u>Y</u> <input checked="" type="checkbox"/> N
Final Settling	<input checked="" type="checkbox"/>	Clarifier	fairly clear / old sludge preventing ideal settling
	<input checked="" type="checkbox"/>	Sludge Return	In <input checked="" type="checkbox"/> Out
	<input checked="" type="checkbox"/>	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment	<input checked="" type="checkbox"/>	Surface Sand Filter	2 sets in use - other 4 clean & ready
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder	tablets okay
	<input checked="" type="checkbox"/>	Dechlorination <del>Tube Feeder</del> liquid	do not use liquid dechlor
		Ultraviolet (UV)	
Flow Metering	<input checked="" type="checkbox"/>	Elapsed Pump Time	<del>or</del> or filter dosing purp
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	okay
Sludge Handling	<input checked="" type="checkbox"/>	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
	<input checked="" type="checkbox"/>	Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Harp Subdivision NPDES permit violations  
February through June 2008

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2008	001	00530	Total Suspended Solids	30D Conc	12	15.	2/1/2008
February 2008	001	00530	Total Suspended Solids	30D Qty	1.8	14.2789	2/1/2008
February 2008	001	00530	Total Suspended Solids	7D Qty	2.7	26.1619	2/1/2008
February 2008	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.55	1.27552	2/1/2008
February 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	3.22664	2/1/2008
February 2008	001	80082	CBOD 5 day	30D Qty	1.5	9.91661	2/1/2008
February 2008	001	80082	CBOD 5 day	7D Qty	2.3	26.1619	2/1/2008
February 2008	001	00530	Total Suspended Solids	7D Conc	18	24.	2/8/2008
February 2008	001	00530	Total Suspended Solids	7D Qty	2.7	8.44812	2/8/2008
February 2008	001	80082	CBOD 5 day	7D Qty	2.3	4.32966	2/8/2008
February 2008	001	00530	Total Suspended Solids	7D Conc	18	20.	2/15/2008
February 2008	001	00530	Total Suspended Solids	7D Qty	2.7	20.5525	2/15/2008
February 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	1.50034	2/15/2008
February 2008	001	80082	CBOD 5 day	7D Qty	2.3	6.78234	2/15/2008
February 2008	001	80082	CBOD 5 day	7D Qty	2.3	2.3925	2/22/2008
March 2008	001	00530	Total Suspended Solids	30D Conc	12	29.	3/1/2008
March 2008	001	00530	Total Suspended Solids	7D Conc	18	32.	3/1/2008
March 2008	001	00530	Total Suspended Solids	30D Qty	1.8	52.4941	3/1/2008
March 2008	001	00530	Total Suspended Solids	7D Qty	2.7	140.620	3/1/2008
March 2008	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.55	3.76857	3/1/2008
March 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	5.53693	3/1/2008
March 2008	001	80082	CBOD 5 day	30D Conc	10	14.4	3/1/2008
March 2008	001	80082	CBOD 5 day	30D Qty	1.5	16.2637	3/1/2008
March 2008	001	80082	CBOD 5 day	7D Qty	2.3	21.5324	3/1/2008
March 2008	001	00530	Total Suspended Solids	7D Conc	18	24.	3/8/2008
March 2008	001	00530	Total Suspended Solids	7D Qty	2.7	19.8939	3/8/2008
March 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	3.15817	3/8/2008
March 2008	001	80082	CBOD 5 day	7D Conc	15	19.8	3/8/2008
March 2008	001	80082	CBOD 5 day	7D Qty	2.3	16.4125	3/8/2008
March 2008	001	00530	Total Suspended Solids	7D Conc	18	36.	3/15/2008
March 2008	001	00530	Total Suspended Solids	7D Qty	2.7	33.9287	3/15/2008
March 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	2.61063	3/15/2008
March 2008	001	80082	CBOD 5 day	7D Conc	15	19.7	3/15/2008
March 2008	001	80082	CBOD 5 day	7D Qty	2.3	18.5665	3/15/2008
March 2008	001	00530	Total Suspended Solids	7D Conc	18	24.	3/22/2008
March 2008	001	00530	Total Suspended Solids	7D Qty	2.7	15.5336	3/22/2008
March 2008	001	80082	CBOD 5 day	7D Qty	2.3	8.5435	3/22/2008
April 2008	001	00530	Total Suspended Solids	30D Conc	12	17.	4/1/2008
April 2008	001	00530	Total Suspended Solids	7D Conc	18	38.	4/1/2008
April 2008	001	00530	Total Suspended Solids	30D Qty	1.8	16.5272	4/1/2008
April 2008	001	00530	Total Suspended Solids	7D Qty	2.7	50.4843	4/1/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.55	1.81803	4/1/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	4.23803	4/1/2008
April 2008	001	80082	CBOD 5 day	30D Conc	10	12.25	4/1/2008
April 2008	001	80082	CBOD 5 day	7D Conc	15	36.6	4/1/2008
April 2008	001	80082	CBOD 5 day	30D Qty	1.5	13.7614	4/1/2008
April 2008	001	80082	CBOD 5 day	7D Qty	2.3	48.6243	4/1/2008
April 2008	001	00530	Total Suspended Solids	7D Qty	2.7	6.1317	4/8/2008
April 2008	001	80082	CBOD 5 day	7D Qty	2.3	3.01475	4/8/2008
April 2008	001	00530	Total Suspended Solids	7D Qty	2.7	8.53896	4/15/2008
April 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.82	2.31619	4/15/2008
April 2008	001	80082	CBOD 5 day	7D Qty	2.3	2.8819	4/15/2008
May 2008	001	00530	Total Suspended Solids	30D Qty	1.8	3.21347	5/1/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.24	.45063	5/1/2008
May 2008	001	80082	CBOD 5 day	30D Qty	1.5	2.30166	5/1/2008
May 2008	001	00530	Total Suspended Solids	7D Qty	2.7	10.2649	5/8/2008
May 2008	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.36	1.01109	5/8/2008
May 2008	001	80082	CBOD 5 day	7D Qty	2.3	3.59272	5/8/2008
May 2008	001	80082	CBOD 5 day	7D Qty	2.3	3.54276	5/15/2008
June 2008	001	00530	Total Suspended Solids	7D Qty	2.7	3.54276	6/8/2008