



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: Ashland County
Maverick Innovative Solutions
NPDES Permit

April 24, 2008

Mr. Bruce Beekman
Maverick Innovative Solutions
532 County Road 1600
Ashland, Ohio 44805

Dear Mr. Beekman:

On March 26, 2008, an inspection was made of the wastewater treatment facilities serving Maverick Innovative Solutions at 532 County Road 1600, Montgomery Township, Ashland County. At the time of the inspection all major treatment components were operating and appeared to be functioning normally.

It was observed that the seal in the chlorine contact tank had again been compromised. The level of water in the tank was several inches below the outlet pipe, indicating that the tank is leaking. Jarrod from Bartley and Bolin Excavating was present to discuss the chlorine tank situation. He suggested the installation of an ultraviolet (UV) disinfection system instead of the chlorine tablets. This system would eliminate the need to have a chlorine tank so the sealing of the tank would no longer be an issue. We also discussed the replacement of the entire filter media within the sand beds. If the sand bed work is completed, it should be verified that a plastic liner is installed at the bottom of the filter media.

A review of the daily monitoring reports submitted to our office for the months of November 2007, through February 2008, revealed numerous violations of the limits contained in your NPDES permit. Please refer to the attached printout for a listing of these violations. Improved operation of the treatment plant is needed in order to achieve better performance. Our office continues to be concerned with the number of violations occurring at your treatment plant.

Please inform our office as to what steps the company has chosen to take in order to correct the violations at the treatment plant. Please be aware that the installation of the UV system would require a Permit to Install (PTI) application approval from our office prior to installation.

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

Sincerely,

Walter Ariss
Environmental Specialist II
Division of Surface Water

/llr

Enclosure

pc: ~~DSW-NWDO~~ File

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2A200217

Facility Name Maverick Innovative Solutions Expiration Date 8/31/2010

Facility Address 532 CR 1600 Date 3/26/08 Time 10:00 am

City Ashland County Ashland Township _____

Name and Address of Owner _____

Person Contacted _____ Owner Phone _____

Flow: Design 1500 GPD Present ~400 GPD (metered - estimated)

Trib. Pop. 80 (actual - ~~estimated~~) Weather at time of inspection: Temp 50° sunny

OEPA Personnel Walter Aciss 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: Jerome Fork Mohican - 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.V.

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____
 Chronic Violations _____ NH₃, TSS, CBOD

5. Adequate plant safety

6. Operation and Maintenance Service Name Chem Tech

Frequency of Visits 1/week

Facility Name: Maverick Innovative Solutions

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	<input checked="" type="checkbox"/>	Trash Trap	Pumping Frequency: ?
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	<input checked="" type="checkbox"/>	Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N Motor/ Blower Unit <u>running</u>	Cycle Time:
Secondary Treatment	<input checked="" type="checkbox"/>	Aeration Tank	Color: <u>weak color</u> Adequate Aeration: Y <input checked="" type="checkbox"/> N
Final Settling	<input checked="" type="checkbox"/>	Clarifier	<u>okay</u>
	<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	<u>sand appears dirty & discussed need to possibly replace media</u>
		Polishing Pond	
		Other	
Disinfection	<input checked="" type="checkbox"/>	Chlorine Tube Feeder <u>not in use</u>	<u>Seal in tank had failed again</u>
	<input checked="" type="checkbox"/>	Dechlorination Tube Feeder <u>not in use</u>	<u>need to repair seal, or possibly install UV</u>
		Ultraviolet (UV)	
Flow Metering	<input checked="" type="checkbox"/>	Elapsed Pump Time	<u>on dosing station</u>
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	<input checked="" type="checkbox"/>	Sand Filter Effluent Dosing	<u>talked about raising lid to prevent stormwater flowing in</u>
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	<input checked="" type="checkbox"/>	Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

NPDES permit limit violations November '07 through February '08

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00217*AD	November 2007	001	00530	Total Suspended Solids	30D Conc	12	20.	11/1/2007
2PR00217*AD	November 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	59.8	11/1/2007
2PR00217*AD	November 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.0171	.05659	11/1/2007
2PR00217*AD	November 2007	001	80082	CBOD 5 day	30D Conc	10	61.2	11/1/2007
2PR00217*AD	November 2007	001	80082	CBOD 5 day	30D Qty	0.0568	.05791	11/1/2007
2PR00217*AD	November 2007	001	00530	Total Suspended Solids	1D Conc	18	20.	11/7/2007
2PR00217*AD	November 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	59.8	11/7/2007
2PR00217*AD	November 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0256	.05659	11/7/2007
2PR00217*AD	November 2007	001	80082	CBOD 5 day	1D Conc	15	61.2	11/7/2007
2PR00217*AD	December 2007	001	00530	Total Suspended Solids	30D Conc	12	81.	12/1/2007
2PR00217*AD	December 2007	001	00530	Total Suspended Solids	30D Qty	0.0682	.07665	12/1/2007
2PR00217*AD	December 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	48.8	12/1/2007
2PR00217*AD	December 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.0171	.04618	12/1/2007
2PR00217*AD	December 2007	001	80082	CBOD 5 day	30D Conc	10	43.2	12/1/2007
2PR00217*AD	December 2007	001	00530	Total Suspended Solids	1D Conc	18	81.	12/6/2007
2PR00217*AD	December 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	48.8	12/6/2007
2PR00217*AD	December 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0256	.04618	12/6/2007
2PR00217*AD	December 2007	001	80082	CBOD 5 day	1D Conc	15	43.2	12/6/2007
2PR00217*AD	January 2008	001	00530	Total Suspended Solids	30D Conc	12	25.5	1/1/2008
2PR00217*AD	January 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	21.6	1/1/2008
2PR00217*AD	January 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.0171	.0278	1/1/2008
2PR00217*AD	January 2008	001	80082	CBOD 5 day	30D Conc	10	25.2	1/1/2008
2PR00217*AD	January 2008	001	00530	Total Suspended Solids	1D Conc	18	25.5	1/7/2008
2PR00217*AD	January 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	21.6	1/7/2008
2PR00217*AD	January 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0256	.0278	1/7/2008
2PR00217*AD	January 2008	001	80082	CBOD 5 day	1D Conc	15	25.2	1/7/2008
2PR00217*AD	February 2008	001	00530	Total Suspended Solids	30D Conc	12	21.6	2/1/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	61.95	2/1/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.0171	.10552	2/1/2008
2PR00217*AD	February 2008	001	80082	CBOD 5 day	30D Conc	10	31.2	2/1/2008
2PR00217*AD	February 2008	001	00530	Total Suspended Solids	1D Conc	18	24.	2/6/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	41.3	2/6/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0256	.07034	2/6/2008
2PR00217*AD	February 2008	001	80082	CBOD 5 day	1D Conc	15	34.8	2/6/2008
2PR00217*AD	February 2008	001	00530	Total Suspended Solids	1D Conc	18	19.2	2/25/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	1D Conc	4.5	82.6	2/25/2008
2PR00217*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0256	.14069	2/25/2008
2PR00217*AD	February 2008	001	80082	CBOD 5 day	1D Conc	15	27.6	2/25/2008
2PR00217*AD	February 2008	001	00300	Dissolved Oxygen	1D Conc	6.0	5.1	2/25/2008