OhioEPA

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

Re: Ashland County
Maverick Innovative Solutions
NPDES Permit

January 11, 2008

Mr. Bruce Beekman
Maverick Innovative Solutions
532 C.R. 1600
Ashland, Ohio 44805

Dear Mr. Beekman,

On January 3, 2008, an inspection was made of the wastewater treatment facilities serving Maverick Innovative Solutions at 532 C.R. 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 both sides of the sand filter bed were in use. Only one side of the bed should be used at a time. This allows one side to remain dry and clean, and be put into use once the other filter becomes covered with a layer of sludge.

A review of the daily monitoring reports submitted to our office for the months of May through October 2007 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. We have received your correspondence regarding sealing the chlorine tank. It is hoped that this may help improve the sampling results.

The review also revealed that the flow rates being reported are always the same value for every day during the month. Pump run time meters have been installed on the sand filter dosing pumps in order to estimate the flows. Typically the flow rate will vary slightly from day to day. Please confirm that the flow rate is being checked daily by your staff.

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

Sincerely,

Walter Ariss

Walter Ariss
Environmental Specialist II
Division of Surface Water

/lb

Enclosure

pc: DSW:NWDO

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PR00217

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

Facility Address 532 CR 1600 Date 11/3/08 Time 3:00 am/pm

City Ashland County Ashland Township Montgomery

Name and Address of Owner

Person Contacted Owner Phone

Flow: Design 1500 GPD Present ~200 GPD (metered - estimated)

Trib. Pop. (actual - estimated) Weather at time of inspection: Temp 35° sunny

OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: Jerome Fork Kokosing - 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	
____	✓	Chlorination Tablets → tank locked
____	✓	Dechlorination Tablets
____	____	U.V. could not confirm

	Yes	No				
4.	____	✓	Compliance with NPDES Permit			
				Y	N	Parameters:
			Periodic Violations	____	____	_____
			Chronic Violations	✓	____	TSS, BOD, NH3
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	1	Trash Trap	Pumping Frequency: ?
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	1	Plant Timer ___Y X N Motor/ Blower Unit running	~~Cycle Time:~~ air filter present
Secondary Treatment	1	Aeration Tank	Color: okay Adequate Aeration: Y X N ___
Final Settling	1	Clarifier	looks okay
	1	Sludge Return	In X Out ___
	1	Surface Skimmer	In X Out ___
		Fixed Media Clarifier	
Tertiary Treatment	1	Surface Sand Filter	using both filter beds/ appear clean of sludge
		Polishing Pond	
		Other	
Disinfection	1	Chlorine Tube Feeder	out
	1	Dechlorination Tube Feeder	out
		Ultraviolet (UV)	
Flow Metering	1	Elapsed Pump Time	On filter dosing / make sure they are checking daily
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	1	Sand Filter Effluent Dosing	Submersible
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	1	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	1	Post Aeration	on
		Spray Irrigation	
		Other	

Maverick Innovative Solutions
NPDES permit limit violations May thorugh October 2007

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.4	5/8/2007
May 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	4.	5/8/2007
May 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	.	5/21/2007
June 2007	001	00530	Total Suspended Solids	30D Conc	12	20.	6/1/2007
June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.2	6/13/2007
June 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.	6/13/2007
June 2007	001	00530	Total Suspended Solids	1D Conc	18	20.	6/26/2007
June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	1.1	6/26/2007
July 2007	001	00530	Total Suspended Solids	30D Conc	12	16.5	7/1/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	5.46	7/1/2007
July 2007	001	80082	CBOD 5 day	30D Conc	10	15.9	7/1/2007
July 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	5.46	7/3/2007
July 2007	001	80082	CBOD 5 day	1D Conc	15	15.9	7/3/2007
July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.2	7/3/2007
July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.7	7/27/2007
July 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.	7/27/2007
August 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	4.88	8/1/2007
August 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	1.6	8/22/2007
August 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	3.	8/22/2007
August 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	4.88	8/22/2007
August 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.7	8/28/2007
August 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	4.	8/28/2007
September 2007	001	00530	Total Suspended Solids	30D Conc	12	14.	9/1/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	4.38	9/1/2007
September 2007	001	31616	Fecal Coliform	30D Conc	1000	3500.	9/1/2007
September 2007	001	80082	CBOD 5 day	30D Conc	10	21.	9/1/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	4.38	9/5/2007
September 2007	001	31616	Fecal Coliform	1D Conc	2000	3500.	9/5/2007
September 2007	001	80082	CBOD 5 day	1D Conc	15	21.	9/5/2007
September 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.4	9/5/2007
September 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.5	9/12/2007
October 2007	001	00530	Total Suspended Solids	30D Conc	12	50.	10/1/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	11.2	10/1/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.0056	.0106	10/1/2007
October 2007	001	00530	Total Suspended Solids	1D Conc	18	50.	10/8/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	11.2	10/8/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3	1D Qty	0.0085	.0106	10/8/2007
October 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.21	10/8/2007
October 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.37	10/19/2007