



State of Ohio Environmental Protection Agency

Northwest District Office

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

RE: Marion County
North Quarry Subdivision
NPDES Permit

November 15, 2007

Mr. Roger Dietrich
Marion County Sanitary Engineering Dept.
222 West Center Street
Marion, Ohio 43302

Dear Mr. Dietrich:

On October 18, 2007, I conducted an inspection at the North Quarry WWTP. Mr. Craig Woodrum was present and provided information regarding the operation of the WWTP.

At the time of the inspection, all the major treatment components were in service. The mixed liquor in the aeration tank had a brown color. The WWTP was producing a visually clear effluent and was discharging to Honey Creek. We did not collect plant effluent samples to determine the water quality of the discharge during the visit.

Please note that your NPDES permit (2PW00004*BD) became effective on October 1, 2005 and will expire on September 30, 2010. Our cursory review of your self-monitoring reports (1/2006 to 9/2007) for this facility showed some effluent violations. Please refer to the enclosed violation table.

A copy of our completed inspection report is included for your review. If you have any questions, please call.

Sincerely,

Jason Ko
Division of Surface Water

/lb

pc: NWDO File

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. : 2PW00004

Facility Name: North Quarry Subdivision

Expiration Date: 9/30/2010

Facility Address : Owens and Gooding Road

Date : 10/18/2007 Time : 11:15 am

City : Marion

County: Marion

Township: Pleasant

Name and Address of Owner: Marion County Sanitary Engineer

Person Contacted : Craig Woodrum, WRP Superintendent

Owner Phone: 740-389-1526

Flow: Design : 20,000 GPD

Present : GPD (metered)

Trib. Pop.: 80 homes (actual)

Weather at time of inspection: 60° & cloudy

OEPA Personnel : Jason Ko

District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	X	Clear	X	None	X	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: Honey Creek (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 _____ X _____ good _____ fair _____ poor operation
 b. Plant has _____ excellent _____ X _____ good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ X _____ 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 _____
<u>X</u> _____	Chlorination Tablets
<u>X</u> _____	Dechlorination Tablets
_____ _____	U.V.

Yes No

4. X _____ Compliance with NPDES Permit

Y N

Parameters: _____

Periodic Violations _____

Chronic Violations _____

5. X _____ Adequate plant safety

6. _____ X _____ Operation and Maintenance Service Name: _____

Frequency of Visits: _____

Facility Name: North Quarry Subdivision

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 1/Month
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	with 1 small blower
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u> </u> <u>N</u>	Cycle Time: ½ hr ON & ½ hr OFF
	2	Motor/ Blower Unit	
Secondary Treatment	2	Aeration Tank	Color : Brown Adequate Aeration: Yes
Final Settling	1	Clarifier	Weir needs cleaning
	2	Sludge Return	In <u>X</u> Out <u> </u>
	1	Surface Skimmer	In <u>X</u> Out <u> </u>
	2	Fixed Media Clarifier	Cl2 added & increase detention time
Tertiary Treatment	2	Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	
	1	Chlorine Tube Feeder	
	1	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering	1	Elapsed Pump Time	At EQ pumps
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	IN	Municipal POTW	Richland Road Plant
		Landfill	
		Land Application	
Advanced Treatment	IN	Post Aeration	
		Spray Irrigation	
		Other	

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Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PW00004*BD	July 2006	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	7.36	7/1/2006
2PW00004*BD	July 2006	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	7.36	7/22/2006
2PW00004*BD	July 2006	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.08	.41926	7/1/2006
2PW00004*BD	July 2006	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.11	.41926	7/22/2006
2PW00004*BD	July 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	4.27	7/19/2007
2PW00004*BD	June 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.5	6/28/2007
2PW00004*BD	May 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.79	5/10/2007
2PW00004*BD	August 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	4.26	8/2/2007
2PW00004*BD	August 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.2	8/9/2007
2PW00004*BD	August 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.41	8/30/2007