

Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

December 29, 2011

Mary Sampsel
Assistant Union County Environmental Engineer
Union County Engineers
233 West 6th Street
Marysville, OH 43040

**Re: Darby Meadows WWTP
NPDES Permit 4PG00005/ OH0039144
Reconnaissance Inspection
Union County**

Dear Ms. Sampsel:

On December 15, 2011, a Reconnaissance Inspect was conducted at the Darby Meadows WWTP. Present for the inspection were you, Mike Galloway, the Operator of Record, Lloyd Haggerty, an operator, and myself of the Ohio EPA, Central District Office, Division of Surface Water. The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant.

Findings:

1. The plant has undergone upgrades which were finalized in the summer of 2011. The former treatment train, consisting of aeration and clarifier tanks, has been converted to an equalizing (EQ) tank and sludge holding tank, respectively. The influent is pumped from the EQ tank to an aeration tank which can be operated in step-feed, plug-flow, or contact stabilization modes. A rectangular clarifier follows along with upflow clarifiers.

Disinfection is accomplished via ultra-violet radiation. The outfall consists of a cascading, energy dissipating system. The former disinfection tanks were collapsed and filled. Overall, the site was in very good condition.

2. The operator maintains a logbook inside the blower building. The log book is generally descriptive but it is missing the time the operator leaves the site. **I request that the times that the operator begins and ends his day at the site be included.**

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Assistant Union County Environmental Engineer
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3. Attached are the compliance and flow data between March 2010 and November 2011. There were some loading violations between November 2010-February 2011, but there have been no violations since plant upgrades were completed.

The flow data shows that there are high peak flows but due to the plant upgrades and the inflow and infiltration (I&I) reduction investigations being done on other County WWTPs, I feel as though no I&I reduction plans are needed at this time for this plant. However, future I&I reduction may be necessary if the upgrades to the plant do not reduce loading violations.

Attached is the Reconnaissance Inspection report. If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3846 or e-mail at cole.miller@epa.ohio.gov.

Sincerely,



Cole Miller
Environmental Specialist
Field Operations Unit
Division of Surface Water
Central District Office

c: File Copy

ec: Cole Miller

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PG00005	OH0039144	RI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
12/15/2011	10:00 AM	10:45 AM	No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Darby Meadows WWTP 10889 West Darby Boulevard Darby Township, Ohio 43064	12/1/2010
	Permit Expiration Date
	11/30/2015
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Name and Title of Responsible Official	Phone Number
Mary Sampsel, Assistant County Environmental Engineer	(937) 645-3018

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
S	NPDES Compliance	
S*	Operations & Maintenance	Please log the time that the operator arrives and departs from the facility.
S	Facility Site Review	
N	Collection System	
S	Flow Measurement	
S	Receiving Waters	
N	Laboratory	

Comments:

Signatures	
 12/21/11	 12/22/11
Cole Miller, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office

Compliance Data for Darby Meadows WWTP between 3/1/2010 to 11/1/2011

Summary

Permit Effluent Limit Violations: 7
 Permit Effluent Code Violations: 2
 Permit Effluent Frequency Violations: 2
 Compliance Schedule Violations: 0

Limit Violations						
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
November 2010	001	Total Suspended Solids	30D Conc	20	24.	11/1/2010
November 2010	001	Total Suspended Solids	30D Qty	0.76	.81756	11/1/2010
December 2010	001	Total Suspended Solids	30D Qty	0.76	.90083	12/1/2010
January 2011	001	CBOD 5 day	30D Qty	0.57	.72672	1/1/2011
January 2011	001	Total Suspended Solids	30D Qty	0.76	.96896	1/1/2011
February 2011	001	Total Suspended Solids	30D Qty	0.76	.88569	2/1/2011
February 2011	001	CBOD 5 day	30D Qty	0.57	.68887	2/1/2011

Code Violations				
Reporting Period	Station	Parameter	Reported Value	Violation Date
May 2010	001	Fecal Coliform	AK	5/27/2010
May 2011	001	E. coli	AK	5/20/2011

Frequency Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2011	001	Fecal Coliform	1/Month	1	0	05/01/2011
June 2011	001	Chlorine, Total Residu	1/2Weeks	1	0	06/15/2011

Flow Data for Darby Meadows WWTP between 3/1/2010 and 11/1/2011

	Date	Flows (MGD)
Ten Highest Flows	10/6/2011	0.109
	10/7/2011	0.109
	10/8/2011	0.109
	10/9/2011	0.109
	10/10/2011	0.109
	10/11/2011	0.109
	4/26/2011	0.076
	3/5/2011	0.059
	3/6/2011	0.059
	3/7/2011	0.059
Average Flow Rate		0.014