



**Environmental  
Protection Agency**

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

July 12, 2012

Chuck Dennis, Maintenance Supervisor  
Heartland Fairfield  
P.O. Box 248  
Pleasantville, OH 43148

**Re: Heartland Fairfield  
NPDES Permit 4PT00008/ OH0038458  
Compliance Evaluation Inspection  
Notice of Violation  
Fairfield County**

Dear Mr. Dennis:

On June 20, 2012, a compliance evaluation inspection was conducted at the Heartland Fairfield WWTP. Present for the inspection were yourself representing Heartland Fairfield and me 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. The findings of the inspection are listed below and in the attached inspection report.

- ❖ November 2011 and March 2012 effluent limit violations are unacceptable. However, the circumstances of the violations were adequately explained and addressed by the facility.
- ❖ The operator of record was not present during the inspection. The logbook for the operator of record was not on-site, therefore evaluation of the minimum requirements for operation of a Class I facility were impossible. The facility shall provide Paul Vandermeer with a copy of the last 4 months of records from the operator logbook by July 30, 2012.
- ❖ The aeration tank contained dilute, light brown wastewater. The sludge returns were returning water of a similar color. The facility may wish to restrict operation of the skimmer to cleaning events only and discontinue continuous operation. Also, it may be that the facility is wasting sludge from the clarifier too often. These operational changes may help increase the efficiency of treatment within the WWTP.

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- ❖ The facility shall explore the possibility of directly measuring effluent flow instead of monitoring potable water usage to provide WWTP flow readings. Potable water usage generally overestimates effluent flow.

If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3854 or e-mail at [paul.vandermeer@epa.ohio.gov](mailto:paul.vandermeer@epa.ohio.gov).

Sincerely,



Paul L. Vandermeer  
Environmental Specialist  
Compliance and Enforcement Unit  
Division of Surface Water  
Central District Office

ec: Paul Vandermeer

PV/nsm Heartland Fairfield

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PT00008	OH0038458	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
6/20/2012	10:25 AM	11:20 AM	Yes	No

SECTION B: FACILITY DATA

Name and Location of Facility Inspected	Permit Effective Date
Heartland Fairfield 7820 Pleasantville Road Pleasantville, OH 43148	8/1/2007
	Permit Expiration Date
	7/31/2012
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Chuck Dennis, Maintenance Supervisor	(740) 536-7381
Name and Title of Responsible Official	Phone Number
Chuck Dennis, Maintenance Supervisor	(740) 536-7381

SECTION C: AREAS EVALUATED DURING INSPECTION

Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated

M	NPDES Compliance	November 2011 and March 2012 effluent limit violations were adequately explained and addressed. Operator log book unavailable.
M	Operations & Maintenance	Aeration tank color is dilute brown. Sludge returns similar color. No records available.
S	Facility Site Review	
N	Collection System	
S	Flow Measurement	
N	Receiving Waters	
N	Laboratory	TCCI Laboratories performs all but D.O., pH, and temperature.

Comments:

Signatures

	7/10/12		7/10/12
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Mike Gallaway, Reviewer Section Manager Division of Surface Water Central District Office	Date

## Compliance Data for Heartland Fairfield between 9/1/2011 to 6/1/2012

### Summary

Permit Effluent Limit Violations: 9

Permit Effluent Code Violations: 0

Permit Effluent Frequency Violations: 0

Compliance Schedule Violations: 0

Limit Violations						
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
November 2011	001	Total Suspended Solids	30D Conc	30	166.75	11/1/2011
November 2011	001	Total Suspended Solids	30D Qty	3.4	10.7295	11/1/2011
November 2011	001	CBOD 5 day	30D Conc	25	33.85	11/1/2011
November 2011	001	Total Suspended Solids	1D Conc	45	618.	11/17/2011
November 2011	001	Total Suspended Solids	1D Qty	5.1	39.7652	11/17/2011
November 2011	001	CBOD 5 day	1D Conc	40	110.	11/17/2011
November 2011	001	CBOD 5 day	1D Qty	4.5	7.07795	11/17/2011
November 2011	001	Dissolved Oxygen	1D Conc	5.0	1.47	11/17/2011
March 2012	001	pH	1D Conc	6.5	6.26	3/5/2012

## Flow Data for Heartland Fairfield between 9/1/2011 and 6/1/2012

	Date	Flows (MGD)
Ten Highest Flows	4/1/2012	0.027
	4/2/2012	0.027
	4/3/2012	0.027
	4/4/2012	0.027
	4/5/2012	0.027
	4/6/2012	0.027
	4/7/2012	0.027
	4/8/2012	0.027
	4/9/2012	0.027
	4/10/2012	0.027
<b>Average Flow Rate</b>		0.019

Method of flow monitoring:	Potable water meter
Type of alarms for plant:	None

### SECTION D: PRELIMINARY TREATMENT

Type of Preliminary Treatment?	Trash Trap	
	Yes	No
Does the unit require pumping or cleaning?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Maintenance of preliminary treatment is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: Trash trap is cleaned quarterly.

### SECTION E: AERATION

Color of MLSS?	Dilute, tan			yes	No
	Yes	No			
Aeration is taking place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Blowers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Blowers are on a timer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foam present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sludge return is operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Overall maintenance satisfactory?				<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status:

**SECTION F: CLARIFIERS**

Clarity of water topping weir	Clear (minimal flow)	
	Yes	No
Weir is clean?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weir is in good condition (i.e., level, free of corrosion, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is effluent present in weir channel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the sludge blanket visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do the clarifier walls need scraping?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is sludge settling properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skimmer is operational? (see comment below)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance of the clarifier is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: Facility may wish to cease continuous operation of skimmers in order to improve sludge return color and overall treatment. Skimmers should be used during any work on the clarifier. Clarifier weir channel had little flow.

**SECTION G: TERTIARY TREATMENT**

	Yes	No		Yes	No
Surface sand filters:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subsurface/Upflow	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distribution box operational	<input type="checkbox"/>	<input type="checkbox"/>	Beds alternated	<input type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	<input type="checkbox"/>	Beds raked	<input type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input type="checkbox"/>	Chlorination present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UV present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dechlorination present*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance satisfactory?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Comments/Status: There are no tertiary filters present. \*Dechlorination tablet tube was empty. Mr. Dennis said he would add tablets immediately.

**SECTION H: SLUDGE HANDING / STORAGE DISPOSAL**

Sludge is periodically wasted from what component?	Clarifier		
Sludge disposal contractor?	ACE Septic		
Sludge disposal location?	Lancaster WWTP		
		Yes	No
Does the WWTP have sludge drying beds?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Does the WWTP have a sludge holding tank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is the maintenance on the sludge handling unit adequate?	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/Status:

**SECTION I: RECORD KEEPING / OPERATOR OF RECORD**

	Yes	No
Operator of Record holds unexpired license of class required by Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted an ORC Notification form?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy of certificate of Operator of Record displayed on-site?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If a Staffing Reduction plan has been approved, are the stipulations of the plan being met?	<input type="checkbox"/>	<input type="checkbox"/>
Operator of Record log book provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Minimum operator staffing requirements fulfilled (OAC 3745-7)?^		
Log book kept onsite (in an area protected from weather)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log book contains the following:		
Identification of treatment works^	<input type="checkbox"/>	<input type="checkbox"/>
Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7^	<input type="checkbox"/>	<input type="checkbox"/>
Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)^	<input type="checkbox"/>	<input type="checkbox"/>
Laboratory results (unless documented on bench sheets)^	<input type="checkbox"/>	<input type="checkbox"/>
Identification of person making entries^	<input type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Logbook Format^	Computer log	Bound book

Comments/Status: *\*No place to display certificate as plant is completely outdoors.  
 ^None of these questions can be answered as there was no logbook on the premises and the operator of record failed to keep the appointment. The facility shall provide this logbook information to Paul Vandermeer by July 31, 2012.*

**SECTION J: PLANT DISCHARGE**

Discharge point is:	<i>To field tile under Pleasantville Road</i>
Discharge is visible:	<i>Prior to entering the tile, yes</i>
Name of discharge point:	<i>001</i>
Marker present:	<i>No, tile discharge is nearly 1 mile distant on private property.</i>
Quality of effluent:	<i>Not discharging</i>
Contract laboratory:	<i>TCCI</i>

Comments/Status: *The facility shall install a marker on the outside of the treatment plant near the discharge to the roadside culvert. The marker shall include the*

*information required in the NPDES permit. The facility shall submit a photograph of the installed marker to Paul Vandermeer by August 31, 2012.*