



March 19, 2013

Mark Anders, President
575 Ross Road
Lancaster, OH 43130

**Re: Pine Lake Estates No 1 WWTP
NPDES Permit 4PW00009/ OH0136387
Reconnaissance Inspection
Fairfield County**

Dear Mr. Anders:

On March 14, 2013, a reconnaissance inspection was conducted at the Pine Lake Estates No 1 WWTP. Present for the inspection were Tom Bouts, contract operator for Pine Lake Estates, 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. Please see the enclosed inspection report for the results of the inspection.

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.state.oh.us.

Sincerely

A handwritten signature in black ink, appearing to read "Paul L. Vandermeer", with a long horizontal flourish extending to the right.

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

ec: Paul L. Vandermeer

PLV/nsm Pine Lake Estates recon 3-2013

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PW00009	OH0136387	Recon	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
3/14/2013	10:35 am	11:00 am	No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Pine Lake Estates No 1 565 Ross Road Lancaster, OH	7/1/2011
	Permit Expiration Date
	6/30/2016
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Tom Bouts, Contract Operator	(614) 429-7811
Name and Title of Responsible Official	Phone Number
Mark Anders, President	(740) 653-3877

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
S	NPDES Compliance	A single violation for <i>E. coli</i> .
M*	Operations & Maintenance	See comments in report and below.
S	Facility Site Review	Facility should consider adding at least one additional sand filter to allow for adequate treatment and maintenance during the winter months.
N	Collection System	
S	Flow Measurement	
S	Receiving Waters	
N	Laboratory	

Comments: *Provision of a water supply to facilitate cleaning of WWTP infrastructure is desperately needed. A small water line could be run from the lake for this purpose, possibly using only gravity feed (NOTE: potable water is not necessary for this purpose). See additional comments in the following report.*

Signatures			
	3/18/13		3/18/13
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office	Date

Compliance Data for Pine Lakes Estate No 1 between 6/1/2012 to 3/1/2013

Summary

Permit Effluent Limit Violations: 1
 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
June 2012	001	E. coli	30D Conc	126	250.	6/1/2012

Flow Data for Pine Lakes Estate No 1 between 6/1/2012 and 3/1/2013

	Date	Flows (MGD)
Ten Highest Flows	7/8/2012	0.008
	12/15/2012	0.008
	12/16/2012	0.008
	12/17/2012	0.008
	12/18/2012	0.008
	12/19/2012	0.008
	12/20/2012	0.008
	12/21/2012	0.008
	10/23/2012	0.006
	10/24/2012	0.006
Average Flow Rate		0.005

Method of flow monitoring:	Dosing pump timer.
Type of alarms for plant:	Visual

SECTION D: PRELIMINARY TREATMENT

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

Comments/Status: **Trash trap shall be pumped by the end of March, 2013.*

SECTION E: AERATION

Color of MLSS?	Chocolate brown				
	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"/>	Blowers are on a timer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Skimmers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<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"/>	Foam present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Overall maintenance satisfactory?*				<input type="checkbox"/>	<input type="checkbox"/>

Comments/Status: *Some solids escaped into the sand filter due to a plugged sludge return line. The return was cleared. *Some maintenance is still needed to ensure proper operation including cleaning of the dosing tank and sand filter. Maintenance work would be greatly facilitated with the installation of a system to supply water for cleaning the upflow clarifiers and other infrastructure mentioned above. The owners shall install a cleaning water supply by May 31, 2013, and notify Paul Vandermeer once this has been accomplished.*

SECTION F: CLARIFIERS

Clarity of water topping weir	Clear		
		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 type="checkbox"/>	<input checked="" 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"/>
Overall maintenance of the clarifier is satisfactory?		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status:

SECTION G: TERTIARY TREATMENT

	Yes	No		Yes	No
Surface sand filters:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subsurface/Upflow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Distribution box operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds alternated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds raked	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

Frequency of cleaning: *As needed. Water supply for cleaning desperately needed.*
 Fixed media upkeep: *Satisfactory*

Comments/Status: *One sand bed was flooded, but the other was in use while the flooded bed was draining. Adding an additional sand filter or two would be preferable, for adequate treatment during freezing conditions as problems with drainage regularly occur during winter.*

SECTION H: SLUDGE HANDING / STORAGE DISPOSAL

Sludge is periodically wasted from what component?	<i>Clarifier</i>	
Sludge disposal contractor?	<i>Wheeler's</i>	
Sludge disposal location?	<i>Wheeler's</i>	
	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 checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum operator staffing requirements fulfilled (OAC 3745-7)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Log book kept onsite (in an area protected from weather)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Log book contains the following:		
Identification of treatment works	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Date/times of arrival/departure for Operator of Record and any other	<input checked="" type="checkbox"/>	<input type="checkbox"/>

operator required by OAC 3745-7		
Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Laboratory results (unless documented on bench sheets)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Identification of person making entries	<input checked="" 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: **The WWTP is entirely outdoors, there is no place to display the certificate.*

SECTION J: PLANT DISCHARGE

Discharge point is:	<i>Unnamed Tributary to Hocking River (drains Pine Lake)</i>
Discharge is visible:	<i>Yes</i>
Name of discharge point:	<i>001</i>
Marker present:	<i>Yes</i>
Quality of effluent:	<i>Clear, no solids noted in stream</i>
Contract laboratory:	<i>NE</i>

Comments/Status