



Environmental  
Protection Agency

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

June 21, 2012

Dave Robinson  
Administrative Director  
Camp Mohaven  
P.O. Box 12340  
Mt. Vernon, OH 43050

**Re: Camp Mohaven  
NPDES Permit 4PX00033/ OH0124133  
Reconnaissance Inspection  
Knox County**

Dear Mr. Robinson:

On June 12, 2012, a Compliance Evaluation Inspection was conducted at the wastewater treatment plant serving Camp Mohaven in Knox County, Ohio. Present for the inspection were yourself and Kevin Dean representing Camp Mohaven and Phil Farnlacher and myself of the Ohio EPA, Central District Office.

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 inspection raised several concerns which must be addressed in the following areas:

**Outfall Signage** - In accordance with Part II. K. (page 7) of the effective NPDES permit a sign identifying the location of the outfall 001 discharge to the unnamed tributary to the Mohican River was required to be installed no later than November 11, 2008. Please have the sign installed no later than 30 days following the receipt of this correspondence.

**Non-compliance Notification** - Please be advised that Part III-12 of your effective NPDES permit requires that you submit an email or a letter of explanation outlining the actions you have taken or are taking to correct certain instances of non-compliance (To date, no written responses have been received for the effluent violations experienced at the plant since the previous inspection. Please provide an explanation for the violations noted in the table and a description of the corrective actions taken or proposed to resolve future violations. Please also provide the required explanations for all future permit violations from this point forward.

**Daily Plant Observations** – The effective NPDES permit requires that readings for color, odor and turbidity be taken on a daily basis. Please make arrangements with the permanent camp personnel to begin taking these readings.

Dave Robinson, Administrative Director  
Camp Mohaven  
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If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3848 or e-mail at [mike.sapp@epa.ohio.gov](mailto:mike.sapp@epa.ohio.gov).

Sincerely,

A handwritten signature in cursive script that reads "Michael Sapp". The signature is written in black ink and is positioned above the typed name.

Michael Sapp  
Compliance and Enforcement Unit  
Division of Surface Water  
Central District Office

c: File Copy  
Kevin Dean, Dean's Backflow Service, w/enclosures

ec: Mike Sapp

MS/nsm Camp Mohaven 12

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4P-K00033	OH0124133	CEI	S	Semi-Public
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
6/12/2012	9:30 AM	10:30 AM	No	No

SECTION B: FACILITY DATA

Name and Location of Facility Inspected	Permit Effective Date
Camp Mohaven 18744 Turkey Ridge Road Danville, Ohio 43014	7/1/2008
	Permit Expiration Date
	6/30/2013
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Kevin Dean – Contract Operator Dean’s Backflow Service, LLC Dave Robinson, Administrative Director, Camp Mohaven	(419) 994-1622 (740) 599-6111
Name and Title of Responsible Official	Phone Number
Dave Robinson, Administrative Director	(740) 599-6111

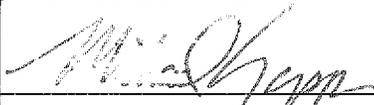
SECTION C: AREAS EVALUATED DURING INSPECTION

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

M	NPDES Compliance	No outfall sign. No non-compliance notification or daily color, odor turbidity readings
S	Operations & Maintenance	
S	Facility Site Review	
S	Collection System	
S	Flow Measurement	
M	Receiving Waters	Significant effluent violations in August 2011.
S	Laboratory	

Comments:

Signatures

	
Michael Sapp, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office

6/18/12

6/20/12

Method of flow monitoring:	Time elapsed meters on tertiary dosing pumps
Type of alarms for plant:	Audible and visual alarms on dosing pumps

**SECTION D: PRELIMINARY TREATMENT**

Type of Preliminary Treatment: Trash trap  
 Does the Trash Trap need pumped: No  
 Maintenance of pretreatment components is: Satisfactory

Comments/Status:  
 Trash trap is pumped out every three months by John's Septic

**SECTION E: AERATION**

Color of sludge: Chocolate brown  
 Quality of Sludge: Good  
 Foam: No  
 Odor: No

	Yes	No		Yes	No
Aeration is taking place	X	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	X
Blowers are operating	X	<input type="checkbox"/>	Blowers are on a timer	X	<input type="checkbox"/>
Skimmers are operating	X	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	X
Diffusers are operating	X	<input type="checkbox"/>	Grating is present	X	<input type="checkbox"/>
Sludge return is operating	X	<input type="checkbox"/>			

Maintenance of aerating equipment is: Satisfactory

Comments/Status:  
 Aeration blowers run for four hours followed by a one hour off cycle.

**SECTION F: CLARIFIERS**

Clarity: Good  
 Condition of Weir: Good  
 Weir is level: Yes  
 Effluent in weir: Yes  
 Clarifier walls need scraped: No  
 Pin floc observed: No  
 Sludge blanket visible: No

Overall maintenance of settling components is: Good

Comments/Status:

**SECTION G: TERTIARY TREATMENT**

	Yes	No		Yes	No
Surface sand Filters:	X	<input type="checkbox"/>	Subsurface/Upflow	<input type="checkbox"/>	X
Distribution box operating	X	<input type="checkbox"/>	Beds alternated	X	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	X	Beds raked	X	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	X	Chlorination present	X	<input type="checkbox"/>
UV present	<input type="checkbox"/>	X	Dechlorination present	X	<input type="checkbox"/>

Frequency of cleaning: As needed  
 Fixed media upkeep: NA  
 Overall maintenance of components is: Good

Comments/Status:

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

Hauler name: John's Septic  
 Disposal Site: Mount Vernon WWTP  
 Sludge wasted from: clarifier  
 How often is sludge wasted: As needed  
 Sludge drying beds: No                      Sludge holding tank: No

Overall maintenance of components is: Good

Comments/Status:



**ADDITIONAL INFORMATION**  
**Camp Mohaven**  
**4PX00033\*CD - OH0124133**

**General**

The wastewater treatment plant serving Camp Mohaven has a design treatment capacity of 9,000 gpd with a discharge to an unnamed tributary to the Mohican River. Wet stream process provided at the facility include a trash trap, extended aeration, clarification, tertiary dosing tank, tertiary sand filtration, chlorination and dechlorination. Liquid sludge is hauled to another POTW for further processing; solids removed from the sand filters are disposed of in a dumpster.

1. At the time of the inspection, the following general observations were made regarding the operation and maintenance of the plant:
  - The camp is equipped with a full service kitchen which serves no meat products and produces little or no grease.
  - Rod Shepler, a Class III contract operator with Dean's Backflow Service, primarily oversees operations of the plant.
  - Coshocton Environmental Laboratories analyzes effluent samples in accordance with NPDES permit requirements. Plant operators perform field tests for dissolved oxygen, chlorine, pH and temperature.
  - The average daily flow at this facility is 1260 gpd. A peak daily flow of 7300 gpd was reported on several occasions in 2011.
  - The camp is adding a new shower house to accommodate additional campers. Up to 500/week are expected later this summer.
  - A PTI was recently approved for the installation of a flow equalization basin and sludge holding tank to accommodate the shower house.
  - During the installation of the new flow equalization basin, a new influent line and distribution box will be installed on the sand filter
  - A new blower and electrical control box were installed since the previous inspection.
  - The contract operator scrapes the clarifier walls 3 times/week during plant visits.
  
2. The NPDES permit requires that daily readings be taken for color, odor and turbidity. They are currently taken only on the two days a week the contract

operator is at the site. Please make arrangements with the permanent camp personnel to begin taking these readings. Please also note that this deficiency was noted during the previous inspection.

3. A log book is kept on site although it only provides the operator's initials, the date of the plant visit with minimal operational details. Please ensure that the log book contains the following minimum components in accordance with OAC 3745-7-09:

- Identification of the public water system, sewerage system, or treatment works.
- Date and times of arrival and departure for the operator of record and any other operator required by this chapter.
- Specific operation and maintenance activities that affect or have the potential to affect the quality or quantity of sewage or water conveyed, effluent or water produced.
- Results of tests performed and samples taken, unless documented on a laboratory sheet.
- Performance of preventative maintenance and repairs or requests for repair of the equipment that affect or have the potential to affect the quality or quantity of sewage or water conveyed, effluent or water produced.
- Identification of the persons making entries.

4. A sign is required that identifies the location of the permitted outfall to the unnamed tributary to the Mohican River. Please have this sign posted within the next 30 days. **Please note that this deficiency was identified during the previous inspection.** The sign must comply with the following requirements:

- The marker shall consist, at a minimum, of the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall number and a contact telephone number. The information shall be printed in letters not less than two inches in height.
- The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign. Vegetation shall be periodically removed to keep the sign visible.

5. Please be advised that Part III-12 of your effective NPDES permit requires that you submit an email or a letter of explanation outlining the actions you have taken or are taking to correct certain instances of non-compliance. To date, no written responses have been received for the effluent violations experienced at the plant since the previous inspection. Please provide an explanation for the violations noted in the attached table and a description of the corrective actions taken or proposed to resolve future violations. Please also provide the required explanations for all future permit violations from this point forward.
  
6. Our office recently received a complaint that one of the aeration tanks at the plant was leaking. An inspection of the wastewater treatment facility indicated that a small area of subsidence, approximately 6-8 inches in depth, was present along the south wall of the aeration tank. The area appeared dry and did not appear to have been caused by a leak in the seam of the precast concrete wall at or near the water surface. An inspection of the plant perimeter did not reveal any seeps or wet areas that might be indicative of a leak in the aeration tank. We discussed the wet area near the girls cabin and the camp ranger attributed it to a groundwater seep or spring at or near the soil surface.

It was also observed that the aeration tank contained several square holes in the precast wall. These holes were pre-manufactured and used to set the precast concrete slabs in place. No evidence of sewage leaks or discharges were observed from the pre-manufactured holes. The camp ranger agreed to perform a visual inspection of the existing tank wall during the excavation and installation of the flow equalization tank.

## Compliance Data for Camp Mohaven between 7/1/2010 to 6/1/2012

### Summary

Permit Effluent Limit Violations: 6

Permit Effluent Code Violations: 0

Permit Effluent Frequency Violations: 1503

Compliance Schedule Violations: 0

Limit Violations						
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2011	001	Nitrogen, Ammonia (NH3)	30D Conc	3.3	21.9	8/1/2011
August 2011	001	Nitrogen, Ammonia (NH3)	7D Conc	4.9	21.9	8/1/2011
August 2011	001	Nitrogen, Ammonia (NH3)	30D Qty	0.11	.27976	8/1/2011
August 2011	001	Nitrogen, Ammonia (NH3)	7D Qty	0.17	.27976	8/1/2011
August 2011	001	Fecal Coliform	30D Conc	1000	2400.	8/1/2011
August 2011	001	Fecal Coliform	7D Conc	2000	2400.	8/1/2011

Flow Data for Camp Mohaven between 7/1/2010 and 6/1/2012

	Date	Flows (GPD)
Ten Highest Flows	6/9/2011	7300
	6/10/2011	7300
	6/11/2011	7300
	6/12/2011	7300
	6/13/2011	7300
	6/14/2011	7300
	6/15/2011	7300
	7/12/2011	6250
	7/13/2011	6250
	6/22/2011	6167
<b>Average Flow Rate</b>		1260