



**Environmental  
Protection Agency**

**Ted Strickland**, Governor  
**Lee Fisher**, Lt. Governor  
**Chris Korleski**, Director



\*1PV0010020080827\*

CLARK

EDGEWOOD MHP

POHLMAN, LAURA

2008/08/27



State of Ohio Environmental Protection Agency

Southwest District Office

401 E. Fifth St.  
Dayton, Ohio 45402

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

August 27, 2008

Nicholas A. O'Connor  
PO Box 2422  
Springfield, OH 45501

**RE: Edgewood MHP – NPDES No. 1PV00100\*CD, OH0123188  
Compliance Evaluation Inspection – Clark County**

Dear Mr. O'Connor:

On August 21, 2008, Laura Pohlman and Sandra Leibfritz conducted an inspection at Edgewood MHP located at 3770 Dayton Road, Springfield, Ohio. Joe and Brenda Sweeney and you were representing Edgewood MHP. The Tertiary Treatment was rated as marginal and the Sludge Handling/Storage Disposal was rated as unsatisfactory. All other areas that were evaluated were rated as satisfactory. Details of these rating may be obtained in the enclosed inspection report.

There are 7 items that require a response. We ask for a written response no later than October 6, 2008. If you should have any questions about the inspection, please call Ms. Pohlman at (937) 285-6099, Ms. Leibfritz at (937)285-6104 or me at (937) 285-6034.

Sincerely,

Martyn G. Burt  
Environmental Supervisor  
Division of Surface Water

cc: Clark County Health Department  
Joe and Brenda Sweeney, Operators





Permit #: 1PV00100\*CD  
 NPDES #: OH0123188



State of Ohio Environmental Protection Agency  
 Southwest District Office

NPDES Compliance Inspection Report  
 Semi-Public Sewage Disposal Inspection Form

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PV00100*CD	OH0123188	08/21/2008	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Edgewood MHP PO Box 2422 Springfield, OH 45502	10:00	January 1, 2006
	Exit Time	Permit Expiration Date
	11:15	December 31, 2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Joe and Brenda Sweeney, Operators  Nicholas O'Connor, Owner	Home- (937) 568-4534 Brenda Cell- (937) 605 2748 (937) 215-3196	
Name(s), Address and Title(s) of Operator of Record	Phone Number(s)	
Brenda Sweeney 12121 Old Columbus Road South Vienna, OH 45369	(937) 568-4534 Brenda Cell- (937) 605 2748	
Name, Address and Title of Responsible Official	Phone Number	
Nicholas A. O'Connor, Owner P O Box 2422 Springfield, Ohio 45501	(937) 215- 3196	

Ohio EPA Inspector	Ohio EPA Reviewer
Laura R. Pohlman 8/26/08 Sandra D. Leibfritz 8/26/08	Martyn G Burt 8/27/08
Laura R. Pohlman Sandra D. Leibfritz Division of Surface Water Southwest District Office	Martyn Burt Date Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office



Average Daily Design Flow:	0.01MGD
Plant Serves:	55 mobile home lots
Average Daily Flow: (Period of Review):	0.01MGD January 2008 through December 2008
Method of flow monitoring:	Water meter
Type of alarms for plant:	Visual

**Comments/Status:**

There are 54 lots occupied. Flow is monitored and reported via a water meter.

Edgewood MHP Wastewater Treatment Plant consists of: Trash Trap, Lift Station/ Equalization Basin, Aeration, Clarifier, Sand Filters and Chlorination with Post Aeration.

**Pretreatment**

Type of Pretreatment: **Trash Trap**  
Does the Trash Trap need pumped: **No**  
Maintenance of pretreatment components is: **Satisfactory**

**Comments/Status:**

The trash trap is pumped approximately every three months by CT Brown of Xenia, Ohio. The trash trap was last pumped in May 2008.

**Equalization Basin / Lift Station**

Two Pumps present: **Yes**  
Both Pumps operational: **Yes**  
Alarm present: **Yes**  
Alarm operational: **Yes**  
Maintenance of equalization basin is: **Satisfactory**

**Comments/Status:**

The influent lift station is equipped with a visual alarm system. The WWTP is checked on a daily basis. The pumps and alarm system are checked on a weekly basis. Both pumps were reported as operational during the inspection.



**Secondary Treatment  
(Aeration)**

Color of sludge: **Light/ Medium Brown**  
 Quality of Sludge: **Medium**  
 Foam: **None present**  
 Odor: **Slight**

	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 operating (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skimmers are operating (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<b>good</b>	
Sludge return is operating (4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Maintenance of aerating equipment is... **Satisfactory**

**Comments/Status:**

The blowers are on a timer and are alternated on a 3 hour cycle. The blowers are operating 24 hours/ 7 days a week. Aeration was occurring during the inspection. There are 4 RAS lines. Two of the 4 RAS lines were returning light/medium brown solids and the lines were 1/2 full. One of skimmers was returning clear effluent from the clarifier to the aeration tank. Note: For operational purposes only half the WWTP was operational.

**Secondary Treatment  
(Settling)**

Clarity: **Clear**  
 Condition of Weir: **Sewage Fungus in Trough**  
 Weir is level: **Yes**  
 Effluent in weir: **Clear**  
 Clarifier walls need scraped: **No**

Overall maintenance of settling components is: **Satisfactory**

**Comments/Status:**

The clarifier walls are scraped approximately every three days. The effluent going over the weirs was clear; however, sewage fungus was observed in the trough.



**Tertiary Treatment**

	Yes	No		Yes	No
Surface sand Filters: <b>Slow</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Subsurface</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distribution box operating	<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 type="checkbox"/>	<input checked="" type="checkbox"/>

Overall maintenance of components is: **Marginal**

**Comments/Status:**

The northwest wall of the filter sand bed was repaired by American Mason. The filter wall was constructed of eight inch concrete block. Rebar was used to reinforce the block and the voids were filled with concrete. Algae, scum, and solids were observed on the surface of the sand bed.

The sand media in the beds were uneven causing uneven flooding and ponding. The beds were free of weeds. The sand filter beds are alternated monthly.

There were excessive solids in the southeast filter bed due to weir wasting. Once the solids are dry, they are raked and placed in a dumpster for disposal at a solid waste landfill. Currently, Edgewood uses Waste Management.

The tertiary Treatment was rated marginal due to the wasting of solids on the sand filters.

Currently, the WWTP does not have dechlorination capabilities.

**Sludge Handling/Storage Disposal**

Hauler name: **Waste Management**  
 Disposal Site: **Stoney Hallow**  
 Sludge wasted from: **Weir wasting to sand filter beds**  
 How often is sludge wasted: **Weir wasting**

Sludge drying beds: **No**                      Sludge holding tank: **No**

Overall maintenance of components is: **Unsatisfactory**

**Comments/Status:**

The Sludge Handling/Storage Disposal area was rated as unsatisfactory due to the lack of a sludge holding tank.



### Plant Discharge

Discharge point is a: **Stream**  
Name of discharge point: **Tributary of the Mad River**  
Discharge is visible: **Yes**  
Quality of Effluent: **Clear**

#### Comments/Status:

Logs for temperature, color, odor, turbidity are completed on a daily basis.

#### Areas Requiring a Response

1. What are the measurements and dosing volume of the influent lift station? Does this meet Ohio EPA's criteria in Green Book with regards to providing proper equalization?
2. During the inspection, we were informed that the water meter consistently measures between 8,500 GPD and 9,000 GPD. When reporting flow data on the Discharge Monthly Reports, this is converted and reported at 0.009 MGD. The water meter does not account for any inflow/infiltration into the collection system during periods of high ground water or storm events. As discussed during the inspection, there are hour meters on the influent pumps. If these hour meters are accurate, then flow should be recorded and reported at this location. Provide written notification on if the hour meters are on the influent lift station are accurate and if so, when flow will begin to be reported from this location.
3. Ohio EPA's standard requires 18 inches of filter media in the sand filter beds. If this standard is not met, provide a timeline for meeting this standard. What is the depth of sand in the sand filters?
4. Currently, Edgewood only disinfects the wastewater with chlorine tablets. What is the timeline for installing dechlorination to maintain consistence compliance with the chlorine limit? As an alternative, Edgewood may install an alternate disinfection system, such as ultraviolet disinfection. Installation of any treatment unit requires a Permit-to-Install (PTI) application and detail plans as per Ohio Revised Code 611.44/611.45.
5. During the inspection, we observed sewage and/or water between the tanks on the extended aeration package plant. A grab sample of this sewage/water should be obtained and evaluated to determine whether or not it is sewage. If a visual and olfactory determination cannot be made, then the sample should be analyzed for a fecal coliform count.



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6. The facility lacks a sludge holding tank. Provide a timeline for installing a sludge holding tank. Installation of any treatment unit requires a PTI application and detail plans as per Ohio Revised Code 611.44/611.45.
7. During the inspection Mr. O'Connor reported that a 3 pillow hach method was used to obtain a dissolved oxygen concentration. In conversation with Ohio EPA's Division of Environmental Service, our laboratory personnel do not believe that this is an approved test method as per 40 CFR 136. Is this a 40 CFR 136 Test Method as required by Part III, Item 6 (Sampling and Analytical Method) of Edgewood's NPDES permit? If not, then provide in writing what actions or measures that have or will be taken to comply with Part III, Item 6 of Edgewood's NPDES permit. If this is an approved test method, then provide the method number.

### **Areas Not Requiring a Response**

Joe & Brenda Sweeney became the operators on June 1, 2008. Prior to that date, Chris Woodell of Hanson Pipe Products was the operator. Joe and/or Brenda Sweeney inspect the plant on a monthly basis.

Joe has a Class I wastewater license and Brenda has a Class II license.

The owner, Nicholas O'Connor, checks the WWTP on a daily basis. Daily logs for color, odor, turbidity, pH, temperature and flow are maintained by Mr. O'Connor. These logs are provided to the operators at the end of the month.

Mr. O'Connor reported that he looked for and found no roof drains discharging into the sewer collection system.

The WWTP has duplicate equipment for aeration and clarification that operate in parallel. To address the ammonia issues with the plant, half the plant was taken out-of-service.

Plastic debris was observed in the clarifier. Ohio EPA recommends that Edgewood address how this debris was deposited in the clarifier when the plant is equipped with a trash trap.

For February 2008, there were 8 violations reported for total suspended solids and carbonaceous biochemical oxygen demand. The operator reported that these violations were due to an inoperable skimmer, RAS and air diffusion air drop.



**EFFLUENT LIMIT VIOLATIONS FOR OUTFALL 1PV00100001**  
**(Period of Review: January 2008 through June 2008)**

7D = Weekly    30D = Monthly    1D = Daily    Conc. = Concentration (mg/l)    Qty. = Quantity (Kg/Day)

Month Reported	Parameter	Frequency / Units	Limit	Value
February 2008	Total Suspended Solids	30D Conc	12.0	35
February 2008	Total Suspended Solids	7D Conc	18.0	35
February 2008	Total Suspended Solids	30D Qty	0.45	1.19228
February 2008	Total Suspended Solids	7D Qty	0.68	1.19228
February 2008	CBOD 5 day	30D Conc	10.0	20.61
February 2008	CBOD 5 day	7D Conc	15.0	20.61
February 2008	CBOD 5 day	30D Qty	0.38	.70208
February 2008	CBOD 5 day	7D Qty	0.57	.70208

