



Environmental
Protection Agency

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

May 29, 2012

Mary A. Sampsel
Assistant County Engineer/Environmental
Parrott Village WWTP
233 West 6th Street
Marysville, OH 43040

Re: **Parrott Village WWTP**
NPDES Permit 4PG00006/ OH0039152
Semi-Public CEI
Union County

Dear Ms. Sampsel:

On May 23, 2012, a Semi-Public CEI was conducted at the Parrott Village WWTP. Present for the inspection were Bill Narducci and Mike Galloway, of Union County Engineers, 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. Attached are compliance tables and flow tables between November 2010 and May 2012. There were frequent violations between November 2010 and July 2011, likely attributed to high flow rates. The average flow rate has been 32,000 GPD with a peak flow rate of 221,000 GPD. The permit is based on a design rate of 20,000 GPD. The County has the capability of remotely shutting off blowers which was installed in late 2010.

There is no Compliance Schedule within the permit relating to inflow and infiltration work. I spoke with Mr. Narducci about the county submitting a tentative schedule about how the I&I will be reduced at Parrott Village WWTP. **Please submit a schedule to me as soon as possible.**

2. The clarifiers had some scum in them. I recommend more frequent scraping of clarifier walls, scum baffle, or increasing the sludge return rate to reduce the scum.
3. The effluent appeared to be a well-treated effluent.

Mary A. Sampsel
Assistant County Engineer/Environmental
Parrott Village WWTP
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Attached is the inspection checklist. **A schedule of I&I reduction is requested by July 15, 2012.** 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,

A handwritten signature in cursive script, appearing to read "Cole Miller".

Cole Miller
Environmental Specialist
Compliance and Enforcement Unit
Division of Surface Water
Central District Office

ec: Cole Miller

CM/nsm 5-23-12

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

| | | | | |
|-----------------|------------|-----------------|---------------------|----------------------------|
| Permit # | NPDES # | Inspection Type | Inspector | Facility Type |
| 4PG00006 | OH0039152 | CEI | S | 1 |
| Inspection Date | Entry Time | Exit Time | Notice of Violation | Significant Non-Compliance |
| 5/23/2012 | 12:00 PM | 12:30 PM | No | No |

SECTION B: FACILITY DATA

| | |
|--|------------------------|
| Name and Location of Facility Inspected | Permit Effective Date |
| Parrott Village WWTP | 3/1/2011 |
| | Permit Expiration Date |
| | 2/29/2016 |
| Name(s) and Title(s) of On-Site Representatives | Phone Numbers |
| Mike Galloway, Operator of Record Bill Narducci, Project Engineer | |
| Name and Title of Responsible Official | Phone Number |
| Mary A. Sampsel, Assistant County Engineer/Environmental | (937) 645-3018 |

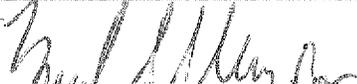
SECTION C: AREAS EVALUATED DURING INSPECTION

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

| | | |
|---|--------------------------|--|
| M | NPDES Compliance | Numerous effluent violations between November 2010 – July 2011 |
| M | Operations & Maintenance | The clarifier has some scum. |
| S | Facility Site Review | |
| U | Collection System | High flows have contributed to effluent violations. |
| S | Flow Measurement | |
| S | Receiving Waters | |
| S | Laboratory | |

Comments:

Signatures

| | | | |
|--|---------|--|---------|
|  | 5/23/12 |  | 5/25/12 |
| Cole Miller, 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 Parrott Village WWTP between 11/1/2010 to 5/1/2012

Summary

Permit Effluent Limit Violations: 30

Permit Effluent Code Violations: 1

Permit Effluent Frequency Violations: 0

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 | 12 | 13. | 11/1/2010 |
| December 2010 | 001 | Total Suspended Solids | 30D Conc | 12 | 14. | 12/1/2010 |
| December 2010 | 001 | Total Suspended Solids | 30D Qty | 0.9 | 1.00681 | 12/1/2010 |
| December 2010 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 7. | 12/1/2010 |
| December 2010 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.23 | .50341 | 12/1/2010 |
| December 2010 | 001 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 7. | 12/22/2010 |
| December 2010 | 001 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.34 | .50341 | 12/22/2010 |
| January 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 18.7 | 1/1/2011 |
| January 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.23 | .84935 | 1/1/2011 |
| January 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 18.7 | 1/22/2011 |
| January 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.34 | .84935 | 1/22/2011 |
| February 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.23 | .30999 | 2/1/2011 |
| March 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 9.3 | 3/1/2011 |
| March 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.23 | .94358 | 3/1/2011 |
| March 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 9.3 | 3/15/2011 |
| March 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.34 | .94358 | 3/15/2011 |
| April 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 3.5 | 4/1/2011 |
| April 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.23 | .43717 | 4/1/2011 |
| May 2011 | 001 | Total Suspended Solids | 30D Conc | 12 | 15. | 5/1/2011 |
| June 2011 | 001 | Total Suspended Solids | 30D Conc | 12 | 13. | 6/1/2011 |

| | | | | | | |
|----------------|-----|------------------------|----------|------|---------|-----------|
| June 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 1.5 | 24.8 | 6/1/2011 |
| June 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.11 | 1.46744 | 6/1/2011 |
| June 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Conc | 2.3 | 24.8 | 6/22/2011 |
| June 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.17 | 1.46744 | 6/22/2011 |
| July 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Conc | 1.5 | 2.6 | 7/1/2011 |
| July 2011 | 001 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.11 | .16779 | 7/1/2011 |
| July 2011 | 001 | E. coli | 30D Conc | 161 | 3900. | 7/1/2011 |
| July 2011 | 001 | Nitrogen, Ammonia (NH3 | 7D Conc | 2.3 | 2.6 | 7/15/2011 |
| July 2011 | 001 | E. coli | 7D Conc | 362 | 3900. | 7/15/2011 |
| September 2011 | 001 | E. coli | 7D Conc | 362 | 10000. | 9/1/2011 |

| Code Violations | | | | |
|------------------|---------|-----------|----------------|----------------|
| Reporting Period | Station | Parameter | Reported Value | Violation Date |
| June 2011 | 001 | E. coli | AK | 6/27/2011 |

Flow Data for Parrott Village WWTP between 11/1/2010 and 5/1/2012

| | Date | Flows (GPD) |
|--------------------------|------------|--------------|
| Ten Highest Flows | 1/27/2012 | 221646 |
| | 11/29/2011 | 216198 |
| | 4/26/2011 | 212000 |
| | 1/24/2012 | 196620 |
| | 12/15/2011 | 181632 |
| | 10/20/2011 | 171402 |
| | 12/6/2011 | 159524 |
| | 12/7/2011 | 159524 |
| | 12/8/2011 | 159524 |
| | 12/21/2011 | 154866 |
| Average Flow Rate | | 32576 |

| | |
|-----------------------------------|---|
| Method of flow monitoring: | Hour meters |
| Type of alarms for plant: | Visual alarm and internet text messaging system |

SECTION D: PRETREATMENT

Type of Pretreatment: Trash trap
 Does the Trash Trap need pumped: No
 Maintenance of pretreatment components is: Acceptable

Comments/Status: Trash trap is pumped once a year.

SECTION E: AERATION

Color of sludge: Brown
 Quality of Sludge: Acceptable
 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 |
| Sludge return is operating | X | <input type="checkbox"/> | | | |

Maintenance of aerating equipment is acceptable.

Comments/Status: Blowers are 45 minutes on / 45 minutes off.

SECTION F: CLARIFIERS

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

Overall maintenance of settling components is: Mostly adequate

Comments/Status: More frequent scum scraping, scraping of walls, and/or higher return rates could reduce the amount of scum.

SECTION G: TERTIARY TREATMENT

| | Yes | No | | Yes | No |
|------------------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|
| Surface sand Filters: | X | <input type="checkbox"/> | Subsurface/Upflow | X | <input type="checkbox"/> |
| 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 | <input type="checkbox"/> | X |
| UV present | X | <input type="checkbox"/> | Dechlorination present | <input type="checkbox"/> | X |

Frequency of cleaning: As needed
 Fixed media upkeep: 2-3 weeks
 Overall maintenance of components is: Acceptable

Comments/Status:

SECTION H: SLUDGE HANDING / STORAGE DISPOSAL

Hauler name: Chris Warner, Warner liquid waste hauling
 Disposal Site: Marysville
 Sludge wasted from: Clarifier/Sludge holding tank
 How often is sludge wasted: Annually
 Sludge drying beds: No Sludge holding tank: Yes

Overall maintenance of components is: Acceptable

Comments/Status:

SECTION I: RECORD KEEPING / OPERATOR OF RECORD

- (a) Wastewater Treatment Works classification (OAC 3745-7).....A
- (b) Operator of Record holds unexpired license of class required by Permit.....Y
- (c) Copy of certificate of Operator of Record displayed on-site.....N/E
- (d) Has the Operator of Record submitted an ORC Notification form..Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7)....Y
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met.....N/A
- (g) Operator of Record log book provided.....Y
- (h) Format of log book (e.g. computer log, hard bound book)

Hard bound

- (i) Log book kept onsite (in an area protected from weather).....Y
- (j) Log book contains the following:
 - I. Identification of treatment works.....Y
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7.....Y
 - i. Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.).....Y
 - ii. Laboratory results (unless documented on bench sheets)...Y
 - iii. Identification of person making entries.....Y
- (k) 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.....Y

Comments/Status:

SECTION J: PLANT DISCHARGE

Discharge point is a: Outfall

Name of discharge point: Unnamed tributary to Mill Creek

Discharge is visible: Yes

Quality of Effluent: Clear with no odor