



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

January 18, 2013

RE: GEAUGA COUNTY
MUNSON TWP.
AQUADOC
NPDES: 3PR00399*BD

Mr. John Wilson
10779 Mayfield Road
Chardon, Ohio 44024

Dear Mr. Wilson:

On January 10, 2013, this writer conducted an inspection of the sewage treatment plant serving the above referenced facility. The intent of the inspection was to assess the operations and maintenance of the treatment system and review compliance with the National Pollutant Discharge Elimination System (NPDES) permit. At the time of the inspection, this writer also conducted a limited scope site records inspection.

The site records inspection evaluated the facility's operations and maintenance records with respect to the terms and conditions of the facility's National Pollutant Discharge Elimination System (NPDES) permit and Ohio Administrative Code (OAC), Rule 3745-7-09. The inspection revealed that records required pursuant to OAC 3745-7-09(A) (3) are maintained at the facility as required by rule.

NPDES PERMIT COMPLIANCE

According to the discharge monitoring report (DMR) data from January 1, 2010 through November 30, 2012 the flow reported averaged 566 gpd. The discharge monitoring report data shows very few flow reported and code AH is used very frequently. Your NPDES permit requires flow to be reported daily. The reporting code "AH" is for when a sample is not collected. The reasons provided in the DMR comment section for why the AH code was used include "facility personnel did not record reading", "facility personnel did not change meter", and "reading did not change on meter, low flow". The AH code must only be used in emergency situations when there is a major upset at the WWTP or equipment is offline for repair. The facility must be providing daily estimate readings for the DMR.

Discharge monitoring report data was reviewed for compliance with the current NPDES permit. A violation summary for the above noted review period is attached to this letter.

INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

At the time of the inspection, the aeration tank was provided with satisfactory air circulation. The contents of the aeration tank were a chocolate brown color and the sludge return was in operation. The clarifier had minimal solids accumulation on the surface and some solids were noticed on the effluent weir. The skimmer was visible and appeared to be at an acceptable depth in the tank. The sand filters were in satisfactory condition. The dosing station appeared to be in good condition. The chlorination/dechlorination was inspected and no chlorination and dechlorination tablets because it

is outside of disinfection season (your NPDES permit contains chlorine and bacteria limits, which requires you to chlorinate (and subsequently dechlorinate) from May through October each year).

The final effluent from the disinfection tank appeared to be clear and in satisfactory condition.

SUMMARY

This office recommends you review the flow monitoring and reporting procedures for the WWTP. To maintain NPDES permit compliance, the facility must report flow daily. Because the meter appears to be offline at times, it is recommended the meter be maintained and, if needed, a backup meter provided onsite.

If you have any questions or comments regarding this inspection, please feel free to contact me at (330) 963-1299.

Respectively,



Laura A. Weber, P.E.
Environmental Engineer
Division of Surface Water

LAW/cs

File: Geauga/Munson Twp/3PR00399

NPDES Discharge Violations

| Reporting Period | Station | Reporting Code | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|------------------|---------|----------------|------------------------|------------|-------|----------------|----------------|
| January 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 7.28 | 1/1/2010 |
| January 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.01 | .01653 | 1/1/2010 |
| January 2010 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 15. | 1/1/2010 |
| January 2010 | 001 | 80082 | CBOD 5 day | 30D Qty | 0.02 | .03407 | 1/1/2010 |
| January 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 7.28 | 1/22/2010 |
| January 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.01 | .01653 | 1/22/2010 |
| January 2010 | 001 | 80082 | CBOD 5 day | 7D Qty | 0.03 | .03407 | 1/22/2010 |
| February 2010 | 001 | 00530 | Total Suspended Solids | 30D Conc | 12 | 17. | 2/1/2010 |
| February 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 24.64 | 2/1/2010 |
| February 2010 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 19. | 2/1/2010 |
| February 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 24.64 | 2/22/2010 |
| February 2010 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 19. | 2/22/2010 |
| March 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 16.8 | 3/1/2010 |
| March 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.01 | .03815 | 3/1/2010 |
| March 2010 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 15. | 3/1/2010 |
| March 2010 | 001 | 80082 | CBOD 5 day | 30D Qty | 0.02 | .03407 | 3/1/2010 |
| April 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Conc | 3.0 | 21.42 | 4/1/2010 |
| April 2010 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 16. | 4/1/2010 |
| April 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Conc | 4.5 | 21.42 | 4/22/2010 |
| April 2010 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 16. | 4/22/2010 |
| May 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Conc | 1.0 | 5.46 | 5/1/2010 |
| May 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 30D Qty | 0.002 | .0124 | 5/1/2010 |
| May 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Conc | 1.5 | 5.46 | 5/15/2010 |
| May 2010 | 001 | 00610 | Nitrogen, Ammonia (NH3 | 7D Qty | 0.004 | .0124 | 5/15/2010 |