



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

March 19, 2013

RE: GEAUGA COUNTY
 CLARIDON TOWNSHIP
 CLARIDON PLAZA
 NPDES PERMIT # 3PR00295

Mr. Anthony Mowad
 1042 Main Street
 Aliquippa, Pennsylvania 14001

Dear Mr. Mowad:

On March 13, 2013, this writer conducted an inspection of the sewage treatment plant serving the above referenced facility. The intent of the inspection was to review operations and maintenance of the treatment system and gather information needed to renew the National Pollutant Discharge Elimination System (NPDES) permit. The existing NPDES permit expired on November 30, 2012.

According to Agency records, the wastewater treatment system was installed under Ohio EPA permit-to-install (PTI) # 02-9087, which was effective June 9, 1995. The wastewater system consists of a 1,000 gallon sludge holding tank, sludge 112 square foot sludge drying beds, 500 gallon trash trap, 2,100 gallon flow equalization tank, 11,000 gallon extended aeration unit, 335 gallon dosing chamber, 356 square feet surface sand filters, chlorine disinfection and a 500 gallon scum holding tank with supernatant recirculation to the flow equalization tank. Upgrades to the system included moving the sludge drying beds (installed under Ohio EPA PTI 02-15235 effective date January 11, 2002) and a holding tank for a beauty salon tenant (installed under Ohio EPA PTI 657112 effective date July 21, 2008).

The wastewater treatment plant (WWTP) discharges to a roadside ditch tributary to the Butternut Creek, which flows into the West Branch of the Cuyahoga River.

NPDES PERMIT COMPLIANCE

A summary of the WWTP monitoring and reporting violations for the period of January 1, 2011 through March 1, 2013 is shown below:

Discharge monitoring violations

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	3.33	1/1/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.445	5/1/2011
October 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.169	10/1/2011
July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.6	7/1/2012
July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	6.72	7/8/2012
July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.02544	7/8/2012

Frequency violations

Reporting Period		Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
January	2011	001	00056	Flow Rate	1/Day	1	0	1/1/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/2/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/3/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/4/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/5/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/6/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/7/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/8/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/9/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/10/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/11/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/12/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/13/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/14/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/15/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/16/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/17/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/18/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/19/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/20/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/21/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/22/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/23/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/24/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/25/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/26/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/27/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/28/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/29/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/30/2011
January	2011	001	00056	Flow Rate	1/Day	1	0	1/31/2011

Any reporting errors or electronic Discharge Monitoring Report (eDMR) errors must be reported to this office so the error may be resolved. You may contact Mr. James Roberts of this Agency's Central Office at (614) 644-2054 to discuss this issue directly.

The WWTP is currently classified by the Ohio EPA as a Class 1 wastewater treatment works. This classification is located in the NPDES permit which had an effective date of December 1, 2007. As such, the facility is required to obtain the services of a Class 1 state certified operator.

Our records indicate Mr. Josh Goodridge, Ron Bell and Delbert McElrath are listed as Operator of Record (ORC) for this facility. Please review this list of operators for accuracy and ensure that all operators are still affiliated with the Claridon Plaza. If any of the operators listed above are not working with your facility, please have the operator removed as an ORC.

The minimum staffing requirements for a Class I facility is 3 days per week for a minimum of 1.5 hours per week. The log book was located onsite and appeared to contain operational information. The operator completing the log book must clearly mark the time they arrived at the plant and the time they departed from the plant. The log book must also contain the initials of the operator of record.

A review of eDMR data shows the average flow for the past three years has been around 531.4 gpd. The NPDES permitted average daily design flow for this facility is 4100 gpd. It appears the treatment plant is operating within design capacity a majority of the time.

INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

The trash traps and sludge holding tank were full at the time of the inspection. This office is requesting the date of the most recent sludge removal from the system. At the time of the inspection, an electrician was working on the electrical controls at the plant. The controls at the dosing station and the pumps were being worked on.

The flow equalization tank less than half full at the time of the inspection and a slight septic odor was noted around the tank. The blowers were running and air was being supplied to the tank.

The extended aeration plant was in operation and the blowers were in operation at the time and appeared to be providing a satisfactory air supply to the aeration tank. The contents of the aeration portion of the plant were a light brown color and the tank was provided with adequate rollover. The sludge return lines were in operation and returning light brown colored solids to the aeration portion of the plant. The clarifier appeared cloudy with minimal solids noted on the surface of the tank. The inlet baffle contained solids and some vegetative growth. The skimmer was visible at the time of the inspection. The effluent trough was set above the liquid level of the tank and there was no effluent visually observed going through the weirs. Please ensure the weirs are level to avoid short circuiting in the tank.

The dosing chamber was out of service for electrical work during the inspection. During the inspection, the pumps were briefly placed back into service and manually turned on. The pumps are operational and appeared to effectively dose the sand filters. The sand filter beds had an accumulation of solids along with some vegetation. The fencing around the sand filters must be reinforced. A daycare is located directly adjacent to the sand filter beds. The portion of the fence which separates the daycare from the filter beds has a large opening near the seam. This opening must be repaired to prevent any young children from obtaining access to the sand filter beds. At the time of the inspection, a child's slide and other toys were noted in the area around the sand filter beds.

The chlorination and dechlorination were not in service as this is outside of the disinfection season.

The final outfall was inspected and appeared to be clear. The result of a past dye test had revealed the effluent discharges underneath the existing PVC pipe. This indicates the effluent is flowing through a buried pipe or a cracked effluent pipe. This office is concerned with the integrity and actual location of the discharge pipe. Please provide information to this office

regarding the actual location of the discharge pipe and whether there are any cracks in the pipe itself. The final effluent was clear and the receiving stream appeared to be in satisfactory condition.

The NPDES permit for this facility expired November 30, 2012. The renewal application for the NPDES permit was received by this office on February 13, 2013.

IN SUMMARY

The following items are of concern to this office and must be addressed:

- 1) Have the trash trap and sludge holding tank pumped out no later than April 20, 2013. Provide notification to this office regarding the date of solids removal from the system.

If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,



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

LAW/cs

cc: Geauga County Health Department: Attn: Dave Sage
Mr. Josh Goodridge

File: Semi-Public/Geauga/Claridon Twp/3PR00295