



**Environmental
Protection Agency**

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

October 18, 2012

RE: GEAUGA COUNTY
CLARIDON TWP
CAMP WISE
NPDES NO: 3PR00426*AD

Mr. Brent Fletcher
Mandel Jewish Community Center of Cleveland
26001 South Woodland Road
Beachwood, Ohio 44122

Dear Mr. Fletcher:

On October 17, 2012, this writer conducted an inspection of the proposed new infirmary building and the sewage treatment plant serving the above referenced facility. The intent of the inspection was to review the proposed building addition, assess the operations and maintenance of the treatment system, and notify you of National Pollutant Discharge Elimination System (NPDES) permit violations.

According to Agency records, the modified wastewater treatment system was installed under Ohio EPA PTI 02-21731, which was effective February 3, 2006.

The upgraded facility includes a 7,000-gallon flow equalization tank equipped with a flow splitter, a 15,000 gpd extended aeration treatment plant and a 10,000 gpd extended aeration treatment plant, 60 square foot upflow fixed media clarifiers, 1,250 square foot surface sand filter and a 1,200 gallon chlorination/dechlorination tank.

The proposed infirmary building will be an update to the facility. The existing building, which houses the camp infirmary will be maintained. The wastewater treatment plant (WWTP) serving the facility is permitted to discharge 22,500 gpd. According to discharge monitoring report data from January 1, 2010 through September 1, 2012, the reported flow for the facility averaged 8,000 gpd. The WWTP does not appear to be overloaded and there is enough capacity in the system if the addition of the infirmary increase the waste load to the system.

The proposed building construction will include approximately 65 feet of a sewer lateral, which will connect the proposed building to the collector sewer. The sewer project will require a Permit-to-Install (PTI) to be issued prior to installation. According to Ms. Lene Hill from CT Consultants, a PTI has been prepared for the sewer extension and will be submitted to Ohio EPA within the week.

NPDES PERMIT COMPLIANCE

A summary of the WWTP monitoring and reporting violations for the period of January 1, 2010 through September 1, 2012 has been attached to this letter.

The WWTP is currently classified by Ohio EPA as a Class A wastewater treatment works. This classification is located in the NPDES permit which had an effective date of September 1, 2011. The Operator of Record for this facility is Tim Frank of Tim Frank Septic.

INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

The aeration tanks in both treatment trains appeared to be in satisfactory condition with the contents of the tank a light brown color. It is understood the waste load to the wastewater treatment system is low, especially during the camping off season. The aeration tank for the 10,000 gpd plant was turned off at the time of the inspection. It is understood the blowers for the aeration tanks are on a timer set at around 12-hour intervals. The 15,000 gpd plant was running with satisfactory air supply. Although the air supply to the tank appeared satisfactory, the rollover within the tank was not uniform. The air diffuser lines should be inspected annually, at minimal, to ensure adequate air circulation and mixing within the tank. The clarifiers contained minimal floating solids and some leaves were noted on the surface of the tank. The skimmer was visible in the clarifier and leaves were noted on and around the skimmer. The effluent weirs of the clarifier were clear and the effluent from the tanks was clear. The wastewater treatment system is provided with grating and screens which are placed on top of the tanks to prevent leaves from entering the tanks. At the time of the inspection, most of the screens were not placed on top of the tanks and were scattered around the WWTP site. The screens must be properly placed on the tanks or removed from the site to prevent tripping hazards around the tanks.

The fixed media clarifiers appeared to be in satisfactory condition. There was some scum and solids accumulating on the surface of the filter. The tank was approximately half full at the time of the inspection. The filter should be cleaned off routinely to prevent excessive accumulation of solids.

The sludge holding tank was in satisfactory condition. The facility hauls solids offsite for further treatment/handling. It is understood Tim Frank Septic is currently the hauler for the WWTP. According to the NPDES permit, the facility is permitted to haul solids to another NPDES permitted facility and this facility is currently not permitted to land apply solids to fields.

According to Ohio EPA files, the dosing station contains dual alternating siphons. The dosing station appeared to be in satisfactory condition.

The sand filters were in operation. At the time of the inspection, one filter bed was raked clean and the other was full of vegetation and some solids accumulation. It is understood the media for one filter bed was replaced in May 2010. Our records indicate the other bed has been in poor condition for over two years. The sand filter bed must be rehabilitated as soon as possible but no later than November 30, 2012. Any sand removed from the sand filter beds must not be stock piled on the site and must be hauled offsite. The solids and sand removed from the filters may be stored in a dumpster onsite until proper disposal offsite. Any filter sand used must meet the Ohio EPA requirements of a uniformity coefficient not greater than 3.0 and an effective size between 0.4-1.0 mm.

The chlorination/dechlorination was inspected and appeared to be in satisfactory condition. Please note, the NPDES permit contains chlorine and e-coli limits which requires you to chlorinate (and subsequently dechlorinate) from May through October each year.

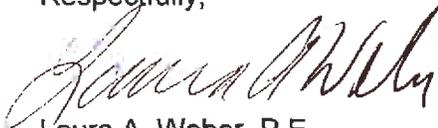
SUMMARY

In summary, the following items must be completed within the required deadline:

- 1) Submit a PTI for the proposed sanitary sewer extension for the proposed infirmary building. The PTI must be issued prior to starting construction on any portion of the sanitary sewer system.
- 2) As soon as possible but no later than November 30, 2012, the facility must completely rehabilitate the sand filter bed which has been in poor condition for over two years. The facility must provide notification to this office once the sand filter bed has been rehabilitated and the media properly replaced.

Should you have any comments or questions 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: CT Consultants, Ms. Lene Hill, P.E.
Geauga County Health Department

Attachments: Violation Summary

DISCHARGE VIOLATIONS:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2010	001	00530	Total Suspended Solids	30D Conc	8	9.5	5/1/2010
May 2010	001	00530	Total Suspended Solids	1D Conc	12	18.	5/18/2010
July 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	0.67	.945	7/1/2010
September 2010	001	00530	Total Suspended Solids	30D Conc	8	10.	9/1/2010
September 2010	001	80082	CBOD 5 day	30D Conc	6.7	100.	9/1/2010
September 2010	001	80082	CBOD 5 day	1D Conc	10	100.	9/23/2010
July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	0.67	12.1	7/1/2012
July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.0571	.36639	7/1/2012
July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.0	12.1	7/22/2012
July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.0852	.36639	7/22/2012