



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

July 9, 2013

RE: GEAUGA COUNTY
BURTON TWP
CAMP BURTON
NPDES NO. 3PR00233

Mideast Baptist Church
c/o Camp Burton
Att: David Scull, Director
14282 Butternut Road
Burton, OH 44021

Dear Mr. Scull:

On June 26, 2013, this office conducted an inspection of the wastewater treatment plant (WWTP) serving the above referenced facility. The intent of the inspection was to review operations and maintenance of the WWTP. Compliance with the National Pollutant Discharge Elimination (NPDES) permit issued to the facility was also reviewed.

According to Agency records, the WWTP includes a 2,000 gallon grease trap on the dining hall, a 2,000 gallon trash trap, 6,613 gallon flow equalization tank, 15,000 gallon package aeration system with a clarifier, dosing chamber to a 1,262 ft² sand filter, chlorination/dechlorination and a 3,000 gallon sludge holding tank. The effluent from the WWTP enters a swale prior to entering the West Branch of the Cuyahoga River. The WWTP was designed for 180 campers/faculty at 50 gpd/person, for a total of 9,000 gpd of wastewater to be produced.

The wastewater generated at the facility is limited to sanitary wastes from the shower house, dining hall and restrooms. The backwash from the pool filter is discharged to the surface sand filter distribution box. At the time of the inspection, there were an estimated 75 campers attending the camp.

Below are the findings and recommendations from the inspection:

INSPECTION SUMMARY

At the time of the inspection, the WWTP was producing what appeared to be a satisfactory effluent.

The flow splitter was in operation and appeared to be in satisfactory condition. The flow equalization tank was in operation and the air supplied to the tank appeared to be satisfactory. The WWTP is provided with one large blower and a small blower. At the time of the inspection, only the larger blower was in operation and appeared to be serving the entire system. It is not known if the smaller blower was in standby mode or if it was out of service.

The aeration tank was in operation and appeared to be nearly full at the time of the inspection. The contents of the aeration tank were a grayish brown color which indicates the solids circulating within the system are low. The air circulation within the tank appeared satisfactory

and satisfactory rollover was noted in the tank. The return lines were running clear. The clarifier portion of the WWTP contained visible scum and solids on the surface of the tank. The contents of the tank were somewhat cloudy and the effluent from the tank appeared turbid. The effluent weir contained some solids and scum and the skimmer was not visible.

The sludge holding tank was somewhat full at the time of the inspection. The contents of the tank appeared somewhat clear and the tank was not aerated. Please provide this office with an update regarding the solids removal from the system (hauling company, frequency, etc).

The dosing chamber appeared to be in satisfactory condition. The distribution line to the surface sand filter was leaking at the connection point to the distribution box. This leak must be fixed immediately as this is considered discharging partially treated wastewater to the ground and is in violation of Part III of your NPDES permit. This must be properly repaired with a watertight connection to prevent leaks. The surface sand filter contained vegetative growth and solids throughout both beds. These beds must be maintained and raked clean of all vegetation and solids. All discarded sand, solids and vegetation must be properly disposed of in a dumpster or hauled offsite. The discarded material must not be stored onsite or within the filter beds.

The chlorination and dechlorination tank appeared to be in operation and the chlorine and dechlorination tablets appeared to be provided. The final effluent from the tank appeared clear. The dosing station appeared to be in satisfactory condition. The surface sand filters contained some minor vegetative growth but both filter beds appeared to be in satisfactory condition. There was an accumulation of vegetative growth on the surface sand filters. The post aeration appeared to be in satisfactory condition. The chlorine contact tank was inspected and found to be in satisfactory condition with chlorine tablets present in the chlorinator. The dechlorination unit was in operation and appeared to be in satisfactory condition. The final effluent appeared clear and in satisfactory condition.

NPDES PERMIT COMPLIANCE

The NPDES permit for this facility expires August 31, 2015. According to the discharge monitoring report (DMR) data from January 1, 2011 through June 1, 2013, the reported flow rate averaged 1,417 gpd. The DMR data was also reviewed for compliance with the current NPDES permit. A violation summary is shown below:

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PR00233*CD	March 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	10.7	3/1/2012
3PR00233*CD	March 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	10.7	3/22/2012
3PR00233*CD	May 2012	001	00300	Dissolved Oxygen	1D Conc	6.0	1.65	5/25/2012
3PR00233*CD	May 2012	001	31648	E. coli	30D Conc	161	4240	5/1/2012
3PR00233*CD	May 2012	001	31648	E. coli	7D Conc	362	4240	5/22/2012
3PR00233*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	15	7/1/2012
3PR00233*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	15	7/22/2012
3PR00233*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.03	.1022	7/1/2012
3PR00233*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.05	.1022	7/22/2012

CAMP BURTON
 JULY 9, 2013
 PAGE 3 OF 4

3PR00233*CD	August 2012	001	00300	Dissolved Oxygen	1D Conc	6.0	3.93	8/23/2012
3PR00233*CD	September 2012	001	00300	Dissolved Oxygen	1D Conc	6.0	4.43	9/25/2012
3PR00233*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	6.86	9/1/2012
3PR00233*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	6.86	9/22/2012
3PR00233*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.03	.04128	9/1/2012
3PR00233*CD	September 2012	001	80082	CBOD 5 day	30D Conc	10	19.8	9/1/2012
3PR00233*CD	September 2012	001	80082	CBOD 5 day	7D Conc	15	19.8	9/22/2012
3PR00233*CD	March 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	7.5	3/1/2013
3PR00233*CD	March 2013	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.5	3/22/2013
3PR00233*CD	May 2013	001	50060	Chlorine, Residu	Total 1D Conc	0.019	.28	5/28/2013

The violation summary indicates the WWTP has been having difficulty meeting the Nitrogen Ammonia, Dissolved Oxygen and Chlorine effluent limits. Please review the above noted violation summary and respond to this office in writing regarding the causes and corrective actions to be taken regarding violations that the WWTP has accrued.

According to the NPDES permit, the WWTP is currently classified by the Ohio EPA as a Class A wastewater treatment works. The facility has obtained the services of a certified operator. Our records indicate Eric Nelson is the Operator of Record (ORC) for the facility.

At the time of the inspection, the operator log book was not located onsite. The log book records are required to be maintained at the facility, pursuant to OAC 3745-7-09(A) (3). The records must be accessible onsite for twenty-four hour inspection by agency or emergency response personnel as prescribed by OAC 3745-7-9(A) (2). The facility Owner and Operator are both responsible to make sure that the log book is available and maintained on site for 24-hour access by Ohio EPA and emergency response personnel. The log must include inspection dates with time in and time out, clearly identify who is logging time at the facility, and list all activities being performed during the visit. In addition to the log book, a copy of the contract with your ORC must be maintained at the site.

SUMMARY

- 1) The facility must repair the leaking distribution pipe to the surface sand filter distribution box immediately. This work must be completed by July 13, 2013. A written notification must be provided to this office indicating the connection has been properly sealed and the leak eliminated.
- 2) The facility must respond in writing regarding the violation summary. The response must address each violation and also provide the possible causes and corrective actions to be taken to prevent future violations
- 3) A log book must be provided onsite for this facility. Please inform this office within 14 days from receipt of this letter as to the status of the log book.

CAMP BURTON
JULY 9, 2013
PAGE 4 OF 4

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
Board of Public Affairs, Middle East Baptist Conference (same address)

File/Semi-Public/Geauga/Burton Twp./Camp Burton