



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

February 18, 2010

RE: LORAIN COUNTY
CARLISLE TWP.
CIRCLE K # 5312
PERMIT NO. 3PR00434
(705 OBERLIN ELYRIA ROAD)

Mr. Matt Mc Cure, Dir. of Facilities
Mac's Convenience Stores
315 Commons Mall
Columbus, IN 47201

Dear Mr. Mc Cure:

On February 17, 2010, a compliance evaluation inspection was conducted on the wastewater treatment plant (WWTP) serving the Circle K # 5312 convenience store, located at 705 Oberlin Elyria Road, Carlisle Township, Lorain County. The inspection was conducted by this writer, and Mr. John Sabo of the Lorain County Health Department. The last Ohio EPA compliance inspection was on February 7, 2008.

At the time of the February 17th WWTP inspection, the following observations were made:

- (1) The aeration tank was being well aerated, and contents of the aeration tank were a dark greasy brown. The return sludge line was operating, returning a lighter brown sludge, and no foam was present on the surface of the contents.
- (2) The settling tank contents were dark brown, and there were floating paper products caught on the edge of the discharge weir leading from the settling tank. The skimmer was adjusted too far below the water surface, but the water being returned by the skimmer was clear.
- (3) The pumps in the sand filter dosing tank were in the 'AUTO' mode, and were operational when tested in the manual mode. The station high level alarm light was lit, indicating a potentially excessive height of water in the dosing station.
- (4) Both of the surface sand filter cells (east and west) were ponded with water, and water was leaking onto the ground through a joint in the sand filter walls by the distribution box. The water appeared to be re-entering the dosing station through the grate covering the dosing tank.

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- (5) The chlorination / dechlorination unit tubes contained no tablets. However, disinfection is not required this time of year (November 1st through April 30th).

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the Circle K # 5312 WWTP since the facility's last CEI, found the following numeric effluent limit violations (November 1, 2007 through February 1, 2010):

Circle K # 5312
 NPDES Permit Number 3PR00434
 Numeric Effluent Violations
 (November 1, 2007 through February 1, 2010)

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2008	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	1.16	6/1/2008
August 2008	Total Suspended Solids	30D Conc	12	12.5	8/1/2008
August 2008	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	7.425	8/1/2008
August 2008	Nitrogen, Ammonia (NH3-N)	30D Qty	0.006	.01686	8/1/2008
August 2008	CBOD 5 day	30D Conc	10	18.	8/1/2008
August 2008	Total Suspended Solids	1D Conc	18	20.	8/23/2008
August 2008	Nitrogen, Ammonia (NH3-N)	1D Conc	1.5	14.62	8/23/2008
August 2008	Nitrogen, Ammonia (NH3-N)	1D Qty	0.009	.0332	8/23/2008
August 2008	Fecal Coliform	1D Conc	2000	5800.	8/23/2008
August 2008	CBOD 5 day	1D Conc	15	33.	8/23/2008
December 2008	Total Suspended Solids	30D Conc	12	30.	12/1/2008
December 2008	CBOD 5 day	30D Conc	10	53.	12/1/2008
December 2008	CBOD 5 day	30D Qty	0.057	.1003	12/1/2008
December 2008	Total Suspended Solids	1D Conc	18	30.	12/10/2008
December 2008	CBOD 5 day	1D Conc	15	53.	12/10/2008
December 2008	CBOD 5 day	1D Qty	0.085	.1003	12/10/2008
March 2009	Total Suspended Solids	30D Conc	12	25.	3/1/2009
March 2009	CBOD 5 day	30D Conc	10	14.	3/1/2009
March 2009	Total Suspended Solids	1D Conc	18	25.	3/26/2009

Mac's Convenience Stores (Circle K #5312) should make the following improvements, and continue the implementation of operation and maintenance practices which will enable the WWTP to consistently meet its NPDES Permit limits:

- 1) The joint(s) of the sand filter walls around the distribution box should be made water tight to prevent water from flowing out onto the ground. The sand filter cells need to be unplugged and kept free of ponded water.

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- 2) The settling tank should have the sides scraped down, and any floating solids removed from the surface of the tank contents. Also, the skimmer should be adjusted in the settling tank to a depth of approximately $\frac{1}{4}$ inch below the water surface.
- 3) The cause of the high level alarm trip should be determined, and corrected if necessary.
- 4) Please contact Mr. Sabo at the Lorain County Health Department (440-284-3228) to re-inspect the WWTP when the above corrections are made.

Please be advised that failure to consistently meet the permitted effluent limits can subject the owner to legal enforcement action for violation of those limits.

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt

cc: John Sabo, Lorain County Health Department

File: SP/Lorain/CarlisleTwp/Circle K 5312