

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection**

N295262769

FACILITY: CITY ENVIRONMENTAL SERVICES LF, INC. OF HASTINGS		SRN / ID: N2952
LOCATION: 1899 N M-43 HWY, HASTINGS		DISTRICT: Grand Rapids
CITY: HASTINGS		COUNTY: BARRY
CONTACT: Robert Pliska , District Engineer		ACTIVITY DATE: 05/04/2022
STAFF: David Morgan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT:		
RESOLVED COMPLAINTS:		

At 2:00 P.M. on May 4, 2022, Air Quality Division staff Dave Morgan conducted an on-site inspection of City Environmental Services Landfill Inc. (a Waste Management Company) located at 1869 N. Broadway in Hastings. The purpose of the inspection was to determine the facility's compliance with state and federal air pollution regulations as well as Renewable Operating Permit (ROP) No. MI-ROP-N2952-2017. Accompanying AQD staff on the inspection was Don Johnson, Site Manager and Bob Pliska, Engineering Manager. A records request was made subsequent to the on-site inspection.

FACILITY DESCRIPTION

The City Environmental Services Landfill, Inc. has a permitted design capacity of 4.48 million cubic yards and accepts approximately 250 tons of waste per day. The landfill consists of a closed disposal cell, various active disposal cells, an active gas collection system, and an enclosed flare. The landfill and associated flare is exempt from new source review permitting under Rule 285(2)(aa) but is covered under ROP No. MI-ROP-N2952-2017.

The landfill is subject to the following federal standards:

1. New Source Performance Standard for existing Municipal Solid Waste Landfills promulgated under 40 CFR Part 60, Subparts A and WWW (through ROP No. MI-ROP-N2952-2017).
2. Federal Plan Requirements for Existing Municipal Solid Waste Landfills promulgated in 40 CFR Part 62, Subpart OOO. The Federal Plan will apply until a State Plan is approved or delegation of the Federal Plan approved for Michigan.
3. The National Emission Standard for Hazardous Air Pollutants (NESHAP) for Asbestos promulgated in 40 CFR Part 61, Subparts A and M.

ROP No. MI-ROP-N2952-2017 will need to be modified to account for federal plan requirements.

The company also has a venturi air stripper used to purge and treat contaminated groundwater. The air stripper has been operational since 1993.

COMPLIANCE EVALUATION

General Landfill info (EULANDFILL<50):

The most recent Tier 2 testing was conducted in February 2021. Non-methane organic compound (NMOC) emissions are expected to be less than 10.27 megagrams (MG) per year through 2025 which is well below the 34 MG/year NMOC threshold which would trigger the NSPS gas collection and control system (GCCS) requirements. The landfill is required to recalculate the NMOC emission rate annually or every 5 years until the NMOC emission rate exceeds 34 MG/year under Subpart OOO.

Records pertaining to maximum design capacity, year-by-year acceptance rate, and amount of waste in place are maintained in accordance with the NSPS. As of the January 1, 2022, the calculated waste in place was approximately 2.62 million cubic yards of waste in place with a permitted capacity of 4.48 million cubic yards.

Active Landfill Gas Collection System:

Although the company is not currently required to operate a GCCS per the NSPS, the company installed and operates an active gas collection and control system in order to prevent off-site migration of landfill gas as well as to control odor. At the time of the inspection, approximately 298 standard cubic feet of landfill gas per minute (scfm) was being captured by the collection system. This is an increase from the last AQD inspection.

Once a month, the company monitors the vacuum pressure of the collection header, as well as the oxygen concentration and temperature at each wellhead. The company records the information obtained during monitoring and submits it to the corporate landfill gas management computer system.

It is noted that the company is not required to conduct surface monitoring over the landfill or wellhead monitoring of the GCCS until NMOC emissions exceed 34 MG/year per 40 CFR Part 62, Subpart OOO.

Enclosed Flare (EUENCLOSEDFLARE):

Gas collected from collection system is routed to an enclosed flare. The company records the temperature of the flare and the gas flow to it on a continuous basis. The enclosed flare was operating at the time of the inspection with a flow rate around 287 scfm and a temperature of 1,533°F. Although temperature and gas flow is monitored, the company is not required under the NSPS to monitor the flare until NMOC emissions exceed 50 Mg/year per the ROP or exceeds 34 Mg/year per 40 CFR Part 62, Subpart OOO. No visible emissions were observed from the flare.

The company conducted a performance test of the enclosed flare on May 31, 2001.

Asbestos Waste (EUASBESTOS):

The landfill began accepting asbestos containing waste in December 2003. According to company records, asbestos waste is placed in a consolidated area within the landfill and is covered over immediately. The company is maintaining all required records including the waste shipment information and records of the location, depth, area, and quantity of asbestos-containing waste material within the disposal site. From May 2021 through April 2022, the company has accepted 193 yards of asbestos containing waste. Records are maintained in accordance with the ROP.

Because of the size of the property around the fill area, there is a sufficient natural barrier to prevent general access to the fill areas with asbestos containing waste. In addition, the company uses signs to warn employees, haulers and visitors if asbestos waste is being deposited.

Cold Cleaner (EUCOLDCLEANER):

The company has removed the cold cleaner from the maintenance building.

Groundwater Treatment System (EUGWTS):

The groundwater treatment system contains a venturi air scrubber to remediate groundwater contaminated with VOCs. The company monitors and records the VOC concentration of the influent and effluent on a quarterly basis through a grab sample. Records reviewed show that for the time period from July 2021 through March 2022, no VOCs have been detected in the influent water samples. The maximum detection limit for VOCs is 5 micrograms per/liter (ug/L). In addition, the company conducts and records daily inspection and maintenance on the treatment system. The system was observed to be running on the day of the inspection with an influent flow rate of 9.4 gallons per minute.

Miscellaneous:

The company has a 220,000 gallon leachate storage tank which is exempt under Rule 285(2)(aa). This tank is enclosed in a building to ensure conditions are adequate for biological breakdown of the leachate during the winter. The building is heated with three separate furnaces that burn untreated landfill gas. These heaters can be considered exempt under Rule 282(2)(g) and the sulfur content of the landfill gas would not result in sulfur dioxide emissions above 1 pound per hour ; all other pollutants are also below significance levels. The heaters were not operating on the day of the inspection.

EVALUATION SUMMARY

City Environmental Services Landfill is in compliance with all applicable requirements. Records are attached.

NAME



DATE

5/10/2022

SUPERVISOR

