

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection

N720546002

FACILITY: Ward Lake Energy-Charlton 34/35 CPF		SRN / ID: N7205
LOCATION: NE NW NE Sec 35, CHARLTON TWP		DISTRICT: Cadillac
CITY: CHARLTON TWP		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 08/28/2018
STAFF: Chance Collins	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled Inspection		
RESOLVED COMPLAINTS:		

On August 28, 2018, AQD staff traveled to Otsego County to perform an inspection of the Ward Lake Energy Charlton 34/35 CPF. The purpose of the inspection was to determine the facility's compliance with Permit to Install No. 86-11. Permit to Install No. 86-11 pertains to a Caterpillar model G3408 TALE engine, and a glycol dehydrator. Facility is subject to 40 CFR Part 63 Subpart ZZZZ which the DEQ is not delegated to enforce.

AQD staff arrived on site at 10:45 a.m. to overcast conditions with a temperature of 70°F, and a SW wind of 6 mph. There were no noticeable odors upon arrival.

The site included a tank farm located just west of the engine shed. There was one 400-barrel tank labeled Brine, and one smaller tank labeled Slop. The tanks are located in a berm which was free of debris and liquid.

Upon entering the engine shed, AQD staff noted that the engine was running. The engine block was labeled as NGCS 373 as stated in previous inspections. The engine was operating at 1030 RPM with an engine oil pressure and engine oil temperature of 41 psi and 203°F respectively. Compressor oil pressure and temperature were 60 psi and 155°F respectively. The catalyst temperatures were at 733°F inlet and 719°F outlet. The stack for EUENGINE appears to meet the permit requirements of 40 feet above ground and 6 inches in diameter.

The glycol dehydrator was running during the inspection. There were odors present that are typically associated with glycol dehydrators. Located next to the glycol dehydrator was one methanol tank, and one glycol tank. Both were of the drum-on-stilt variety over a berm with no liquid or debris inside.

Inside the engine shed there were also two lube oil tanks, and one waste oil tank. The lube oil tanks were of the drum-on-stilt variety over a berm with no liquid or debris inside.

The following discusses the review of records supplied by ECT on behalf of Ward Lake Energy.

#### EUDEHY

- Flow rate through EUDEHY is being monitored and recorded. Actual flow rate is 12,374 cubic meters/day

#### EUENGINE

- NO<sub>x</sub> emission limit 83 TPY. As of July 2018, the 12-month rolling time period NO<sub>x</sub> emissions are 2.185 Tons. Monthly and 12-month rolling time period NO<sub>x</sub> emissions were provided. This meets the permit condition.
- CO emission limit 7 TPY. As of July 2018, the 12-month rolling time period CO emissions are 4.807 Tons. Monthly and 12-month rolling time period CO emissions were provided. This meets the permit condition.
- Facility has an approved PM/MAP on file.
- Add-on control device appeared to be well maintained and working.
- EUENGINE did not operate without add-on control during records reviewed time period.
- Permittee monitors and records natural gas usage for EUENGINE monthly.
- A log of all maintenance activities is kept and has been reviewed.

#### FGFACILITY

· Natural gas is produced from the Antrim formation. H2S is not known to be present.

NAME 

DATE 9/17/2018

SUPERVISOR 