

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

P126473401

<b>FACILITY:</b> FREEHOLD ENERGY RNG LLC		<b>SRN / ID:</b> P1264
<b>LOCATION:</b> 2190 SQUIRES ROAD, BAILEY		<b>DISTRICT:</b> Grand Rapids
<b>CITY:</b> BAILEY		<b>COUNTY:</b> MUSKEGON
<b>CONTACT:</b> CW Alexander , Director		<b>ACTIVITY DATE:</b> 08/13/2024
<b>STAFF:</b> Eric Grinstern	<b>COMPLIANCE STATUS:</b> Compliance	<b>SOURCE CLASS:</b> Minor
<b>SUBJECT:</b> Scheduled Inspection		
<b>RESOLVED COMPLAINTS:</b>		

## FACILITY DESCRIPTION

Freehold Energy RNG, LLC is permitted to operate an anaerobic digestion (AD) facility located at the Ryzebol Dairy Farm. Ryzebol Dairy Farm is located in rural Muskegon County and has a mailing address of Baily, MI. The facility is proposed to process dairy manure from Ryzebol Dairy. The facility will include anaerobic digestion tanks, a natural gas boiler, a 770 hp natural gas-fired engine, a gas cleaning and upgrading unit, and a backup flare. Gas generated from the AD process will primarily be used to produce renewable natural gas (RNG) that will be pipeline injected.

## COMPLIANCE EVALUATION

The facility has one permit to install, PTI No. 104-22, which was issued on July 28, 2022. In January 2024, the facility's consultant requested an extension to begin construction since the facility would not begin construction within 18-months of the permit issuance. An extension was granted on January 19, 2024, extending the construction deadline to July 19, 2025.

The permit contains the following emission units:

**EUGCU** Gas Cleaning and Upgrading Unit including a multistage membrane system. The GCU is used to upgrade the raw anaerobic digester gas to meet pipeline specifications.

**EUFLARE** One digester gas flare used as backup for the EUGCU. The flare is capable of burning up to 716 scfm, giving a heat input capacity of 24 MMBtu/hr when using the estimated higher heating value of the digester gas of 520 Btu/scf.

**EUBOILER A** 6.43 MMBtu/hr natural gas-fired boiler for heating the digester

**EUENGINE A** 770 HP natural gas-fueled reciprocating internal combustion engine (RICE)

EUGCU requires the permittee, within 90 days of permit issuance, to submit, implement, and maintain a nuisance minimization plan for odors.

AQD staff contacted the facility contact, CW Alexander, on September 5, 2024, and discussed the requirement to submit an odor plan. Mr. Alexander stated that he would address the plan requirement. Mr. Alexander stated that they have not started construction, but plan to start putting in a foundation this fall. Primary construction will begin in the Spring of 2025, with startup in April 2026.

AQD staff conducted an evaluation of the facility from the public roadway on August 13, 2024. Staff did not observe any construction activity associated with the proposed anaerobic digestion facility.

### CONCLUSION

Construction has not begun on the facility. The facility will be scheduled for an inspection in FY26.

NAME *Eric Grinstern*      DATE 09/05/2024      SUPERVISOR *HH*