

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

**FCE Summary Report**

<b>Facility :</b> Northern Oaks Recycling and Disposal Facility	<b>SRN :</b> N6010
<b>Location :</b> 513 N. County Farm Road	<b>District :</b> Bay City
	<b>County :</b> CLARE
<b>City :</b> HARRISON <b>State:</b> MI <b>Zip Code :</b> 48625	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Nathanael Gentle
<b>FCE Begin Date :</b> 7/11/2021	<b>FCE Completion Date :</b> 7/11/2022
<b>Comments :</b> FCE FY2022 Inspection	

**List of Partial Compliance Evaluations :**

Activity Date	Activity Type	Compliance Status	Comments
07/11/2022	On-site Inspection	Compliance	FY2022 Scheduled Onsite Inspection.
06/24/2022	NSPS (Part 60)		As required by 40 CFR 62, Subpart OOO- Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014, Northern Oaks RDF submitted to the EPA an Initial Liquids Report in accordance with 40 CFR 62. 16724(l)(7). The facility has recirculated leachate within the past ten years. The following data was reported for the 12-month period June 2021 through May 2022. Volume of leachate recirculated: 940,500 gallons Total Volume of all other liquids added: 0 gallons Surface area over which the leachate is recirculated/applied: 5 acres Surface area over which any other liquids are applied: N/A Total waste disposed in the areas with recirculated leachate and/or added liquids: 1,390,775 megagrams. The annual waste acceptance rates in areas with recirculated leachate and/or added liquids: 200,545 megagrams.

<b>Activity Date</b>	<b>Activity Type</b>	<b>Compliance Status</b>	<b>Comments</b>
03/08/2022	ROP Annual Cert	Compliance	No deviations reported.
03/08/2022	ROP SEMI 2 CERT	Compliance	No deviations reported
03/08/2022	MAERS	Compliance	2021 Air Emission report Certification. Audit completed

10/28/2021	Stack Test	<p>Tier 2 Report  Gas sample collection was completed on 8/30/2021. AQD staff were onsite to observe sample collection, see observation report.  Results show 12.5 Mg/yr for the year 2021.</p> <p>The last Tier II test was completed on 8/30/2016. Results from the 2016 test were 28.05 Mg/yr. Time was taken to review the 2021 results to determine the reason for the decrease in results from the 2016 to the 2021 test. Sample collection was completed by the same company as the 2016 test, Environmental Information Logistics LLC (EIL). Methods for sample collection, lab analysis and equations remained the same from the 2016 test. One difference that was noted was the gas samples were sent to a different laboratory for analysis. Analysis of the 2021 samples was completed by AtmAA, Inc. laboratories in Calabasas, CA. Analysis of the 2016 samples was completed by Triangle Environmental Services, Inc. laboratory in Research triangle Park, North Carolina. In both the 2016 and 2021 sample analysis, samples were analyzed for oxygen and nitrogen using Method 3C, analysis of methane, carbon dioxide and NMOC was completed following Method 25C. Staff reviewed the facilities most recent MAERS report and attached Landgem analysis performed by the facility. The Landgem model attached to the 2020 MAERS report showed 14.10 Mg/yr for 2020. This value is close to the 12.5 Mg/yr results from Tier II test. Landgem input values included the following.  For the 2021 Tier II test the following parameters were used.  Methane generation rate: 0.050  Potential methane generation capacity: 170 m<sup>3</sup>/Mg  NMOC concentration: 150.13 ppmv as hexane</p> <p>For the MAERS model the following inputs were used  Methane generation rate: 0.040</p>
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10/28/2021	Stack Test	Potential methane generation capacity: 100 m <sup>3</sup> /Mg NIMOC concentration: 315 ppmv as hexane
10/13/2021	Other	Email notification was provided by the facility communicating the potential for offsite odors.
09/27/2021	ROP Other	Report received for initial design capacity and NIMOC emission rate as required by 0000, 40 CFR 62.16724(a). NIMOC emission rate is currently less than 34 Mg/yr.
09/09/2021	ROP Semi 1 Cert	No deviations reported.
08/30/2021	Other	Observation of Tier 2 Testing.

Name: Mathewson, Brent

Date: 7/22/2022

Supervisor:

Chris Lane