

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

**FCE Summary Report**

<b>Facility :</b> Warren Waste Water Treatment Plant	<b>SRN :</b> B1792
<b>Location :</b> 32360 Warkop	<b>District :</b> Warren
	<b>County :</b> MACOMB
<b>City :</b> WARREN <b>State:</b> MI <b>Zip Code :</b> 48093	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Robert Joseph
<b>FCE Begin Date :</b> 7/27/2022	<b>FCE Completion Date :</b> 4/4/2024
<b>Comments :</b> Scheduled inspection of Wastewater Treatment Plant (activity date 03/06/24).	

**List of Partial Compliance Evaluations :**

Activity Date	Activity Type	Compliance Status	Comments
03/06/2024	On-site Inspection	Compliance	Scheduled inspection of wastewater treatment plant.

11/21/2023	Stack Test	Compliance	<p>Stack Test emission results per ROP MI-ROP-B1792-2021 per NSPS Subpart M.</p> <ul style="list-style-type: none"> <li>-Particulate Matter: 0.011 lbs of exhaust air corrected to 50% excess air. (Permit Limit 0.2 lbs). 5.5 %.</li> <li>-Particulate Matter: 16.76 mg/m<sup>3</sup> at 7% Oxygen. (Permit Limit 80 mg/dscm). 21.0%.</li> <li>-Hydrogen Chloride: 0.30 ppmv dry at 7% Oxygen (Permit Limit 1.2 ppmv dry). 25.0%.</li> <li>-Carbon Monoxide: 1,529 ppmv dry at 7% Oxygen (Permit Limit 3,800 ppmv dry). 40.2%.</li> <li>-Dioxins/Furans (toxic equivalency basis): 0.044 ng/m<sup>3</sup> (Permit Limit 0.32 ng/dscm). 13.6%.</li> <li>-Mercury: 0.043 mg/dscm at 7% Oxygen (Permit Limit 0.28 mg/dscm). 15.4%.</li> <li>-Oxides of Nitrogen: 126.5 ppmv dry at 7% Oxygen (Permit Limit 220 ppmv dry). 57.5%</li> <li>-Sulfur Dioxide: 5.31 ppmv dry at 7% Oxygen (Permit Limit 26 ppmv dry). 20.4%</li> <li>-Cadmium: 0.0027 mg/dscm at 7% Oxygen (Permit Limit 0.095 mg/dscm). 2.8%</li> <li>-Lead: 0.013 mg/dscm at 7% Oxygen (Permit Limit 0.30 mg/dscm). 4.3%.</li> <li>-Fugitive Emissions: 0% . (Permit Limit 5% of hourly observation of combustion Ash). 0%.</li> <li>-Sludge feed rate, wet ton/hr: 5.70 (160.8 tons/day).</li> <li>-Scrubber pressure: 23.35 inches water column.</li> <li>-Scrubber flow rate: 537.5 gal/min.</li> <li>-Scrubber pH: 5.31.</li> <li>-Hearth 4-6 chamber temp (combustion temps): 1342.2 F</li> </ul>
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11/20/2023	ROP Semi 1 Cert	Compliance	<p>Semi-Annual ROP certification report, deviation report, CAM excursion, and CAM downtime reports. January 1, 2023 to June 30, 2023.</p> <p>EU-Incinerator: Less than 5 min power loss until generator restored power on 04/23. Scrubber flow on 05/02 and 05/03 due to emission study (~700 gpm for 8-10 hrs).</p> <p>No other deviations regarding pressure &lt; 24.3 in H2O, temperature &lt; 1356 F, scrubber flow &lt; 806.2 gpm, pH &lt; 6.26, sludge feed rate &lt; 153 tons/day.</p>
05/23/2023	ROP Other	Compliance	<p>40 CFR Part 63 Subpart DDDDD - Notification of Compliance Status. Testing and Maintenance of FG-Boilers. Maintenance includes spark igniter, flame detector, condensate trap, O-ring, gaskets and seals.</p> <p>HVAC Unit #1 Aerco Boiler - WWO60752 HVAC Unit #2 Aerco Boiler - WWO60753</p> <p>Burners and heat exchangers cleaned, flame patten inspected and air to fuel ratio adjusted per manufacture. Boilers are operating within manufacturer specification.</p>

Activity Date	Activity Type	Compliance Status	Comments
05/23/2023	ROP SEMI 2 CERT	Compliance	<p>Semi-Annual ROP certification report, deviation report, CAM excursion, and CAM downtime reports. July 1, 2022 to December 31, 2022.</p> <p>Scrubber: Power Failure 7 hrs. on 09/25.  Differential Pressure: Power Failure 7 hrs. on 09/25.  Incinerator: Thermocouple 7 hrs Power Failure (hearth maintained operating compliance).  pH Probe: Calibrated on 08/02 and 08/03. Unknown causes occurred on 07/15, 07/23, 07/26, 07/31 (feed rate adjusted), 09/24, 09/25 (power failure), 10/14, 11/07, 12/10, 12/12, 12/17, 12/18, 12/26, 12/27, 12/28 with down time between 3 to 9 hrs. New transmitter ordered as old sludge in tank may have contributed to the down times. Facility has implemented a malfunction plan for this to either adjust feed rate or scrubber flow within 1 hour or shut down operations.</p>
05/16/2023	ROP Annual Cert	Compliance	<p>Annual ROP certification report, deviation report, CAM excursion, and CAM downtime reports January 1, 2022 to Dec. 31, 2022. See entries dated 09-15-22 and 03-16-23 for details for the 1st and 2nd semi-annual reports.</p>
04/25/2023	Annual Emissions Report (or MAERS)	Compliance	MAERS Report Submission.
04/25/2023	Annual Emissions Report (or MAERS)	Compliance	MAERS Certification form.
10/03/2022	ROP Semi 1 Cert	Compliance	<p>Semi-Annual ROP certification report, deviation report, CAM excursion, and CAM downtime reports. January 1, 2022 to June 30, 2022.</p> <p>The facility did not report any deviations for FGSolidProcess regarding thermocouples, pressure transducer and transmitter, pH, flow meter, and sludge feed.</p>

Activity Date	Activity Type	Compliance Status	Comments
09/15/2022	Stack Test	Compliance	<p>Compliance Test Report for NOx and CO for incinerator performed on July 6, 2022.</p> <p>The last performance test for NOx and CO occurred on June 15, 2021 (see 08/12/21 for results), in addition, all pollutants were tested on June 18, 2020, (see 10/13/20 for results) and all were 75% below their emission limit except for NOx, therefore, per 40 CFR 60.5205 of Subpart M, all pollutants must be retested within 13 months.</p> <p>NOx: Test result 99.6 ppmv (permit limit 220 ppmv). 45.2% of the emission limit.</p> <p>CO: Test result 3,290 ppmv (permit limit 3800 ppmv). 86.6% of the emission limit.</p> <p>Tests were performed at 7% oxygen.</p>

Name: Robert Joseph

Date: 04-04-24

Supervisor:

Joyce