

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

| | |
|--|---------------------------------------|
| Facility : Warren Waste Water Treatment Plant | SRN : B1792 |
| Location : 32360 Warkop | District : Warren |
| | County : MACOMB |
| City : WARREN State: MI Zip Code : 48093 | Compliance Status : Compliance |
| Source Class : MAJOR | Staff : Robert Joseph |
| FCE Begin Date : 7/27/2022 | FCE Completion Date : 4/4/2024 |
| Comments : 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"> -Particulate Matter: 0.011 lbs of exhaust air corrected to 50% excess air. (Permit Limit 0.2 lbs). 5.5 %. -Particulate Matter: 16.76 mg/m³ at 7% Oxygen. (Permit Limit 80 mg/dscm). 21.0%. -Hydrogen Chloride: 0.30 ppmv dry at 7% Oxygen (Permit Limit 1.2 ppmv dry). 25.0%. -Carbon Monoxide: 1,529 ppmv dry at 7% Oxygen (Permit Limit 3,800 ppmv dry). 40.2%. -Dioxins/Furans (toxic equivalency basis): 0.044 ng/m³ (Permit Limit 0.32 ng/dscm). 13.6%. -Mercury: 0.043 mg/dscm at 7% Oxygen (Permit Limit 0.28 mg/dscm). 15.4%. -Oxides of Nitrogen: 126.5 ppmv dry at 7% Oxygen (Permit Limit 220 ppmv dry). 57.5% -Sulfur Dioxide: 5.31 ppmv dry at 7% Oxygen (Permit Limit 26 ppmv dry). 20.4% -Cadmium: 0.0027 mg/dscm at 7% Oxygen (Permit Limit 0.095 mg/dscm). 2.8% -Lead: 0.013 mg/dscm at 7% Oxygen (Permit Limit 0.30 mg/dscm). 4.3%. -Fugitive Emissions: 0% . (Permit Limit 5% of hourly observation of combustion Ash). 0%. -Sludge feed rate, wet ton/hr: 5.70 (160.8 tons/day). -Scrubber pressure: 23.35 inches water column. -Scrubber flow rate: 537.5 gal/min. -Scrubber pH: 5.31. -Hearth 4-6 chamber temp (combustion temps): 1342.2 F |
|------------|------------|------------|---|

| | | | |
|------------|-----------------|------------|---|
| 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 < 24.3 in H2O, temperature < 1356 F, scrubber flow < 806.2 gpm, pH < 6.26, sludge feed rate < 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