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

B148666364		
FACILITY: BAY CITY WASTEWATER TREATMENT PLANT		SRN / ID: B1486
LOCATION: 2905 N WATER ST, BAY	CITY	DISTRICT: Bay City
CITY: BAY CITY		COUNTY: BAY
CONTACT: Smith Phil, Operations Ma	nager	ACTIVITY DATE: 01/27/2023
STAFF: Kathy Brewer	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
	alth symptoms. No longer providing back up en	ergy for BC Electric. PTI needed for new engine
ordered but not yet installed		
RESOLVED COMPLAINTS:		

I conducted a scheduled inspection at the City of Bay City WWTP. The WWTP has one active air permit # 424-88A for a dual fuel 3,000 kW/4200 HP backup power generator. The site is no longer used as a peaking plant to supplement the Bay City electric power supply.

PTI 424-88A was issued on October 27, 2004 and is a Title V Opt-Out permit to limit NOx emissions. The facility is also subject to the area source RICE MACT

On January 27, 2023, Philip Smith and Brandon Vondra of the Bay City WWTP participated in a TEAMs virtual meeting.

During the meeting Bay City staff explained that the current engine is schedule to be replaced with a new engine in the Spring 2023. A subsequent meeting was held on February 1, 2023 with Bay City WWTP staff and consultants from Hubbel, Roth & Clark and also Tetratech to discuss air permitting requirements for the new engine.

At the time of my inspection BC WWTP was in compliance with the requirements in the opt-out permit and air quality regulations.

Attachments

Generator nameplate photo

Fuel supplier certification <15 ppm sulfur

**Diesel fuel SDS** 

Main Diesel storage tank level indicator

Wall fuel tank meter

Generator hours March 25, 2021, Feb 2-2022,

Compliance Determination

## PTI 424-88A-EUGENERATOR and FGFACILITY

The generator is required to burn low sulfur diesel fuel (0.5% sulfur content). The diesel oil supplier certifies maximum sulfur content of 15 ppm. The diesel fuel supplier certification for the

last diesel delivery received on 6/29/2016 was provided. The generator is used infrequently for cases of emergency and the site has not ordered diesel fuel for several years.

MAERS information reported the following hours of operation:

2021 1st	2020 1st	YEAR
		Quarter
100	18.9 2nd	Hours
2nd	2nd	Quarter
0	0	Hours
3rd	3rd	Quarter
0	13.3 4th	Hours
4th		YEAR Quarter Hours Quarter Hours Quarter Hours Quarter Hours
0	67.8	Hours

that is filled as needed from a large outside fuel oil storage tank. The diesel fuel meter is located on the day tank. The meters are the source of readings taken for required reporting parameters Logs of the operating hours and diesel fuel use were provided. The facility has a fuel oil day tank

for a 12-month rolling time frame. Appendix . The daily operating information is tracked by spreadsheet which performs required calculations The calculations are based on the formula in PTI #424-88a

2022, it has only run the generator a total of 27.4 hours. The site has not used natural gas fuel for over 5 years. Between November 2019 and November

Date	Engine operating hours	Distillate oil usage gallons.	NOx Monthly	FGFACILITY 12 month rolling average NOx lbs/year
			emission (Lbs)	(limit = 90 Ton/yr)
March 2021	4.0	137	687	16.05
July 2022	1.15	23	10.49	0.87
August 2022	1.10	20	9.32	1.65

NOx emissions for January 1, 2003 through November 2022, is attached. A copy of the spreadsheet with the monthly operating hours, diesel usage and 12-month rolling

NAME Ale Dune

DATE 2/17/2023

SUPERVISOR Chris Hare