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

B542763298

FACILITY: LITTLE BAY CONCRETE PRODUCTS		**SRN / ID:** B5427
LOCATION: 119 N NINTH ST, GLADSTONE		**DISTRICT:** Marquette
CITY: GLADSTONE		**COUNTY:** DELTA
CONTACT: Kyle Stemick , Plant Manager		**ACTIVITY DATE:** 06/16/2022
STAFF: Lauren Luce	**COMPLIANCE STATUS:** Compliance	**SOURCE CLASS:** MINOR
SUBJECT: Targeted Inspection FY22		
RESOLVED COMPLAINTS:		

Facility: Little Bay Concrete (SRN: B5427)

Location: 119 N 9th Street, Gladstone, Delta County, MI

Contacts: Kyle Stemick, Plant Manager

Regulatory Authority

Under the Authority of Section 5526 of Part 55 of NREPA, The Department of Environment, Great Lakes, and Energy (EGLE) may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

Facility Description

Little Bay Concrete is a ready-mix concrete plant located in the City of Gladstone. The plant is located just north of a residential area in a commercial district.

Concrete is composed essentially of water, cement, sand (fine aggregate) and coarse aggregate. Coarse aggregate may consist of gravel, crushed stone or iron blast furnace slag. Some specialty aggregate products could be either heavyweight aggregate (of barite, magnetite, limonite, ilmenite, iron or steel) or lightweight aggregate (with sintered clay, shale, slate, diatomaceous shale, perlite, vermiculite, slag pumice, cinders, or sintered fly ash). Approximately 75 percent of the U.S. concrete manufactured is produced at plants that store, convey, measure and discharge these constituents into trucks for transport to a job site. At most of these plants, sand, aggregate, cement and water are all gravity fed from the weight hopper into the mixer trucks. The concrete is mixed on the way to the site where the concrete is to be poured.

Emissions

Particulate matter, consisting primarily of cement and pozzolan dust but including some aggregate and sand dust emissions, is the primary pollutant of concern. In addition, there are emissions of metals that are associated with this particulate matter. All but one of the emission points are fugitive in nature. The only point sources are the transfer of cement and pozzolan material to silos, and these are usually vented to a fabric filter or "sock". Fugitive sources include the transfer of sand and aggregate, truck loading, mixer loading, vehicle traffic, and wind erosion from sand and aggregate storage piles. The amount of fugitive emissions generated during the

transfer of sand and aggregate depends primarily on the surface moisture content of these materials.

Emissions Reporting

Little Bay Concrete is not required to report annual emissions to Michigan Air Emissions Reporting System (MAERS).

Regulatory Analysis

The facility operates under a Permit to Install exemption, R 336.1289(d).

Compliance History

The facility has not received any violation notices in the past five years. The facility was last inspected in August 2012 and was found to be in compliance with all applicable air quality rules and regulations at that time.

Inspection

On June 16, 2022, AQD Staff (Lauren Luce) conducted a targeted inspection on the Little Bay Concrete in Gladstone, MI. AQD Staff arrived at the facility and met with Kyle Stemick, Plant Manager. It was explained that the purpose of the inspection was to ensure compliance with the Rule 289 exemption and all other applicable air pollution control rules and federal regulations. The inspection began by discussing facility records, the exemption, and equipment. A tour of the facility was then provided.

Records provided on total cubic yards produced for 2021 show a total of 9,489.35. The facility uses a bag house for truck loading and a bag house for cement handling operations. The bag houses are inspected regularly. The filters were last changed in April 2022. Additional new filters were on site. A batch was being mixed during the inspection and no visible emissions were observed. The facility utilizes sprinklers and a watering truck for fugitive dust control. Per Rule 289, all necessary handling operations were within three sided enclosures. The facility was well kept and roadways were swept. Winds were approximately 20mph during the inspection and no visible emissions were observed.

Compliance

Based on this inspection and records reviewed, Little Bay Concrete appears to be in compliance with the Rule 289 exemption and all other applicable air pollution control rules and federal regulations.

NAME _____ DATE 6-23-22 SUPERVISOR _____