

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

B733363793

FACILITY: ISHPEMING CONCRETE INC		SRN / ID: B7333
LOCATION: 400 STONE ST, ISHPEMING		DISTRICT: Marquette
CITY: ISHPEMING		COUNTY: MARQUETTE
CONTACT:		ACTIVITY DATE: 07/06/2022
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced inspection to determine compliance with PTI 281-77 and applicable Michigan Air Pollution Control Rules.		
RESOLVED COMPLAINTS:		

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

Ishpeming Concrete is a Redi-Mix concrete batch plant located in the City of Ishpeming. The batch plant is located at the same property as Moyle Trucking & Excavating. The property is in a commercial district just south of a residential area.

PROCESS DESCRIPTION

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 silo filter vent located on top of each silo. 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

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

REGULATORY ANALYSIS

The facility operates under Permit to Install 281-77.

COMPLIANCE HISTORY

The facility has not received any violation notices in the past five years. The facility was last inspected in February 2012 and was found to be following PTI 281-77 and applicable air quality rules and regulations at that time.

INSPECTION

On July 6, 2022, AQD Staff (Joseph Scanlan) conducted a targeted inspection of Ishpeming Concrete, located in the city of Ishpeming, Marquette County. Contact at the facility is Sean Fancis, Project Manager, for Moyle Trucking/Ishpeming Concrete. AQD staff explained the purpose of the inspection was to ensure compliance with PTI 281-77 and all other applicable air pollution control rules and federal regulations.

The inspection began by discussing facility layout and equipment. A tour of the facility was then provided. The facility has two silos, one for fly ash and one for cement, each using a silo filter vent for control of fugitive dust emissions. Silo Filter Vents are used to vent silos into which material is conveyed. As the material fills the silo, it displaces air, which must be vented without loss of product. Product collected on the filter bags is returned to the silo by shaking the bags after filling has been completed.

The cement silo filter vent is inspected regularly and the entire unit was replaced in 2020 with a newer Griffin Filters natural vented model. Additional replacement filters bags were on site. The fly ash silo is no longer used; it has not been used in many years due to lack of demand for the product.

The facility uses a watering truck for fugitive dust control of haul trucks in the yard. The facility and yard were well kept; no visible emissions were observed during the inspection.

COMPLIANCE

Based on this inspection and records reviewed, Ishpeming Concrete appears to be following PTI 281-77 and all other applicable air pollution control rules and federal regulations.

NAME 

DATE 8/12/2022

SUPERVISOR 