

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

N085158504

FACILITY: PETERMAN MOBILE CONCRETE		SRN / ID: N0851
LOCATION: 333 PETERMAN LANE, PORTAGE		DISTRICT: Kalamazoo
CITY: PORTAGE		COUNTY: KALAMAZOO
CONTACT: Josh Peterman ,		ACTIVITY DATE: 06/16/2021
STAFF: Rachel Benaway	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: On-site inspection to verify compliance with state and federal air use regulations.		
RESOLVED COMPLAINTS:		

Due to Covid-19 health and safety precautions, all AQD inspections are now announced prior to entry to a facility. Peterman Mobile Concrete (N0851), located at 333 Peterman Lane in Portage, Michigan, is a ready mix concrete loading facility. The facility voided its Permit to Install (PTI) in 2001 and now operates under an exemption. The purpose of this inspection on 6/16/2021 by AQD staff, Rachel Benaway, was to verify the applicability of the exemption in Rule 336.1284(k) and compliance with all state and federal air use regulations.

The last inspection was completed on 9-17-2008. Josh Peterman is now the facility contact. Mike Schoonbeck was present for the on-site inspection. The weather conditions were a clear, 73 degrees (F) with a 3mph NE wind. The facility runs all year long, five and a half days a week, for 12 to 15 hours each day. There are approximately 30 people on staff at this location.

Staff observed facility activity before entry to note any visible emissions from the truck loading, truck traffic, or aggregate piles. Five trucks were seen entering or exiting the facility in one half hour. A 10 second, 10% opacity visible emission of dust was observed coming off a truck in line that was adjusting its arm, but no excessive emissions were observed. Water puddles and wet pavement were noticeable around the yard and watering activities were observed twice within a 15-minute timespan.

Exemption: Rule 336.1284(k):

Storage containers and transfer operations of noncarcinogenic solid material, including silos, that only emit particulate matter and that are controlled with an appropriately designed and operated fabric filter collector system or an equivalent control system.

The facility uses sand and three types of coarse aggregate which is fed to the plant by a loader. The aggregate is fed up a covered conveyor to the silos and then along covered conveyors to the scale house. An interior, covered conveyor moves the aggregate to the loading hopper where water and cement are also dispensed into the truck below. No visible emissions were observed from any portion of the conveyors that are not internally located.


The four silos range in capacity from 70 to 100 tons. Since the last inspection, the capacity of one of the silos was increased from 70 to 100 tons. Each silo is equipped with a dust collector. The filters are cleaned via air hose periodically and changed out once every two months. A complete

set of replacement filters (approximately 10) is stored on hand at all times. The pulse jet fabric filter system has an air intake above the loading area and pulse jet cleaning system that runs a 30 to 60-minute cleaning cycle to clear the filters. All material gathered through the dust collection system is reused. There are two containment units (cement pigs) that are used to store extra "waste" product.

The facility typically loads about 18 trucks per day at a rate of 3 minutes per truck. Each truck can hold 10 cubic yards of material. The roadways are paved and watered by a front loader with a 250-gallon water tank that has a drilled pipe attached to the front edge to dispense the water evenly. The yard is watered throughout the day as needed. The facility also uses a sweeper truck twice a week. A sprinkler system keeps the 8 or 9 aggregate bins watered and no fugitive dust was observed from them.

Near the entrance, the facility has a shed for 1-pound water soluble bags of polypropylene for mixture reinforcement. Drivers take bags as needed and add to the trucks before loading. The facility stores leftover concrete in piles at the back of the property and then utilizes a portable crushing operation (Bill Dickerson) approximately once a year to process it for reuse. No crushing equipment is kept on site.

The Rule 284 exemption still appears applicable at this time. The facility appears to be in compliance with all air use regulations and is not in need of further permitting at this time.

NAME 

DATE 6-17-2021

SUPERVISOR RIL 6/25/21