

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

P062759555

FACILITY: JAMES PETERSON SONS, INC.		SRN / ID: P0627
LOCATION: 106 Homer Rd, IRON RIVER		DISTRICT: Marquette
CITY: IRON RIVER		COUNTY: IRON
CONTACT: Nick Blomberg , Controller		ACTIVITY DATE: 03/31/2021
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Off-site inspection via phone and email w/Nick Blomberg. Company is based out of WI and has not operated in MI since 2019.		
RESOLVED COMPLAINTS:		

REGULATORY AUTHORITY

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy 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

James Peterson Sons, Inc. (JPS) is a construction company based out of Medford, Wisconsin, offering civil engineering project development and site construction. The company provides services in road and highway construction, site work and excavating, subgrade utility infrastructure projects, concrete production and delivery, non-metallic and metallic mining, and aggregate production. For aggregate production, JPS operates a portable nonmetallic crusher plant throughout Wisconsin and occasionally the Upper Peninsula.

P0627 was issued PRI # 137-15 for a non-metallic crushing plant.

PROCESS DESCRIPTION

A crushing plant produces smaller size aggregate from larger size rock. The final product can be used for a variety of applications from infrastructure projects to residential landscape purposes. A crushing plant can consist of loaders, haul trucks, generators, crushers, screens, conveyors, and stockpiles. The plant is normally located within a quarry, crushing stone that was generated from blasting. The process begins with large size rocks being fed into the primary crusher via loader, producing an initial size product. From the primary crusher, the product can be conveyed into a screen plant that separates the crushed aggregate into various sized products. Smaller size material is filtered out and leaves on separate conveyors to stockpiles, while larger size material continues into the secondary crusher. A secondary crusher will break the aggregate down into smaller sizes before it enters the screen plant again or continues down the line to a tertiary screen and crusher. A crushing plant may have several crushers, screens, and conveyors depending on how many sizes of aggregate are to be produced.

EMISSIONS

Stone crushing and processing operations can cause point and fugitive emissions of PM, PM10, and PM2.5. Emissions from process operations should be considered fugitive unless the source of emissions is vented through a force-air vent or stack. Fugitive sources of emissions are generated

from machine movement and wind erosion. Emission sources can include hauling, crushing, screening, and transferring of material. The primary factors affecting PM emissions are wind and moisture content of the material. Spray bars on crushers and screens, along with the use of dust suppressants on roadways reduces fugitive dust emissions from activity by 60% to 85%. Moisture on the surface of the material can cause fine particles to adhere resulting in a dust suppression effect

EMISSIONS REPORTING

The company did not operate in Michigan in 2020 and therefore did not submit an annual emissions report in MAERS. The company reported 24,177 tons of throughput and 58.02 lbs of PM10 for calendar year 2019.

COMPLIANCE HISTORY

There is no history of inspections performed at these facilities and no violation notices have been issued.

REGULATORY ANALYSIS

PTI# 137-15 was issued for a portable non-metallic mineral crushing plant. New or additional equipment that is subject to the federal NSPS Subpart OOO, which has not been previously tested, shall comply with the testing requirements of the NSPS.

Equipment permitted under PTI# 137-15 includes:

EQUIPMENT ID	YEAR/MAKE/MODEL	NSPS SUBPART OOO TEST
170103 Primary Crusher	2008 Lippmann LP 3048	9/11/2008
170201 Secondary Crusher	1996 Nordberg HP300	9/11/2008
17031M -Rental Surge Bin	Unknown	9/11/2008
170428 Radial Stacker	Unknown 36"x80'	9/11/2008
170401 Conveyor	Winchel 36"	9/11/2008
170403 Conveyor	Unknown 36"x60'	9/11/2008
170408 Conveyor	Unknown 30"x52'	9/11/2008
170424 Conveyor	Kafka 30"x29'	9/11/2008

INSPECTION

PTI# 137-15 relocated to Michigan from Wisconsin in 2019 at the Mike's Crane Service Pit in Iron County where the plant crushed approximately 25,000 tons of aggregate before returning to Wisconsin. On 9/3/21 the company submitted a notice to relocate P0627 back to the Mike's Crane Service Pit and began crushing on 9/7/21 until 9/24/21 and intends to crush 30,000 tons at this location.

COMPLIANCE

As the equipment associated with PTI #137-15 was not operating in Michigan at the time of the inspection, AQD staff reviewed past years emission reports and requested the company provided documentation of visible emissions testing for all equipment as required by NSPS Supart OOO. Based on information provided the company appears to be in compliance with their permit and the NSPS OOO standards.

NAME J. So

DATE 9/27/21

SUPERVISOR EdL