

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

P119068807

FACILITY: James Peterson Sons, Inc.		SRN / ID: P1190
LOCATION: Stone Road E 2/4 Mile Pit on North, BESSEMER		DISTRICT: Marquette
CITY: BESSEMER		COUNTY: GOGEBIC
CONTACT: Nick Blomberg , Contoller		ACTIVITY DATE: 08/30/2023
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Off-site inspection to determine compliance with PTI No. 14-21		
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 contractor based out of Medford, WI. JPS operates a complete line of excavating and hauling equipment including bulldozers, scrapers, motor graders, backhoes, loaders, compaction equipment, dump trucks and rock crushing and screening equipment. The company owns and operates several portable non-metallic crushing plants in Wisconsin and Michigan. JPS portable crushing facility SRN P1190 is a portable non-metallic crushing plant that operates under General Permit to Install (PTI) No. 14-21.

PROCESS DESCRIPTION

The 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. The crushing plant consists of loaders, haul trucks, generators, crushers, screens, conveyors, and stockpiles. The plant is located within a quarry. The process begins with large size rocks being fed into the primary jaw crusher via loader, producing an initial size product. From the primary crusher, the product is 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. The secondary crusher breaks the aggregate down into smaller sizes before it enters the screen plant again or continues down the line to the tertiary screen and crusher. From the tertiary screen and crusher, the material is conveyed to stockpiles.

EMISSIONS

Stone quarrying 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 an air pollution control device or contained and emitted 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 the moisture content of the material. Moisture on the surface of the material can cause fine particles to adhere resulting in a dust suppression effect.

EMISSIONS REPORTING

The facility is subject to the federal New Source Performance Standards (NSPS) Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants and reports its annual emissions to Michigan Air Emissions Reporting System (MAERS). For 2022, the facility reported 100,383 tons of throughput in Gogebic County resulting in 48.2 lbs of particulate matter emissions. The facility also reported very minor CO, NO_x, PM, SO₂ and VOC emissions related to diesel usage for the generator, skid steer, loader, semi-truck, and water truck.

COMPLIANCE HISTORY

The facility has not received any violation notices since the PTI was issued. This facility has not been previously inspected.

REGULATORY ANALYSIS

SRN P1190 is currently subject to General PTI No. 14-21 for a portable nonmetallic crushing plant. The facility is considered a minor source because the potential-to-emit (PTE) of all regulated air pollutants is less than the major source thresholds. The facility is also considered an area source because the PTE of individual HAPs is less than 9 tpy and the PTE of aggregate HAP emissions is less than 25 tpy. The facility is subject to NSPS Subpart OOO by having a portable crushing plant with a crushing capacity of greater than 150 tons/hr and equipment that has been constructed after August 31, 1983.

INSPECTION

An email was sent to JPS requesting the status of SRN P1190 on 8/30/2023. The company responded stating there are no plans for SRN P1190 to operate in Michigan for 2023 prior to October 1, 2023. The company also stated all NSPS subject equipment has been VE tested and records of testing are retained. A list of equipment that is covered under SRN P1190 is listed in the PTI application for SRN P1190 and on file.

COMPLIANCE

Based on this off-site inspection, it appears JPS SRN P1190 is in compliance with General PTI No. 14-21 and all other applicable Michigan Air Pollution Control Rules and federal regulations.

NAME 

DATE 9-8-2023

SUPERVISOR 