

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection

N832954432

FACILITY: HAVELKA CONSTRUCTION		SRN / ID: N8329
LOCATION: N4559 HIGHWAY US-41, WALLACE		DISTRICT: Upper Peninsula
CITY: WALLACE		COUNTY: MENOMINEE
CONTACT: Kevin Havelka , Owner		ACTIVITY DATE: 07/29/2020
STAFF: Michael Conklin	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS: MINOR
SUBJECT: Self initiated inspection for FY 20. Source has not been submitting relocation notices. The source was inspected to determine the operational status, location of equipment, and compliance with General PTI No. 44-10.		
RESOLVED COMPLAINTS:		

Facility: Havelka Construction (SRN: N8329)
Location: N4559 US-41, Wallace, MI 49893
Contact: Kevin Havelka, 715-587-6904
Jeremy Havelka, 715-587-2778

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

Havelka Construction is a sand and gravel company based out of Wallace, MI. The company operates a portable nonmetallic crusher plant between their two gravel pits in Delta and Menominee County.

Process Description

A crushing plant produces smaller size aggregate, such as gravel, 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 raw materials being fed into the primary crusher via loader, producing an initial size product. From the primary crusher, the product can be conveyed into a secondary crusher while sand or small particles are separated out onto another conveyor to a stockpile. A secondary crusher will break the aggregate down into a smaller sizes before it enters the screen plant. The screen plant separates the crushed aggregate into various sized products and leaves on separate conveyors to either stockpiles or continues through the plant into a tertiary crusher and screen plant. 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 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 moisture content of the material. Spray bars on crushers and screens, along with the use of dust suppressants on roads within the plant reduces fugitive dust emissions from activity. 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). In 2019, the facility reported crushing 58,959 tons of material and emitting 589 pounds of PM10.

Compliance History

The facility has not received any violation notices in the past five years and was last inspected in 2016.

Regulatory Analysis

Havelka Construction is currently subject to General PTI No. 44-10 for a portable non-metallic crushing plant. The facility is considered a true 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

Prior to the on-site inspection, a records request was sent to Havelka Construction, via email on 07/15/2020, for records that are required to be maintained in General PTI No. 44-10. The company was also contacted to determine the operational status, the location of the equipment, and future sites of operation for the year. Havelka Construction has been submitting MAERS reports and reporting operations in Delta and Menominee County, but there have been no relocation notices sent to the AQD. The company did not reply to the records requests and the company was contacted a week later. I spoke with Kevin Havelka on 07/22/2020 and 07/27/2020 regarding plant operations and air quality compliance. From speaking with Mr. Havelka, the company has not been operating within the conditions of their PTI and had questions regarding compliance requirements. An on-site inspection was scheduled for 07/29/2020 to inspect the crushing plant and discuss air quality compliance requirements with the company representatives.

On 07/29/2020, I conducted a self-initiated inspection on Havelka Construction at the Flat Rock quarry in Gladstone, MI and the Wallace quarry in Wallace, MI. The company owns both quarries and crushes at them throughout the year. Since the company contains crushing equipment at each quarry, it was decided that both quarries would be inspected to see all crushing equipment.

The Flat Rock quarry is located west of Gladstone, near the corner of County Roads 420 and 426. I arrived at the site at 11:50 PM ET and met with Kevin Havelka. The weather conditions were 80 degrees Fahrenheit and clear. Upon arrival, the plant was not operating. I explained to Mr. Havelka that the purpose of the inspection was to ensure compliance with General PTI No. 44-10 and all other applicable air pollution control rules and federal regulations.

Mr. Havelka provided a tour of the Flat Rock plant and discussed their operations. The Flat Rock plant contains one (1) Pioneer jaw crusher, one (1) Simplicity screen plant, one (1) Allis-Chalmers cone crusher, and three (3) conveyors. Mr. Havelka stated that he did not believe the Pioneer jaw crusher was included in the original permit. There have been no EQP5756 forms received to update process information. It was observed there were water sprays installed on both crushers and on a transfer point from the screen plant onto the conveyor that feeds into the secondary crusher. A water pump is installed in a pond with lines running to the crushing plant. Mr. Havelka stated that plant roadways are watered with the loaders by scooping water out of the pond in the quarry.

After inspecting the equipment at the Flat Rock quarry, we next went over to the Wallace quarry located off County Road 342, about a mile west of US-41. I arrived at 1:50 PM ET and met with Kevin and Jeremy Havelka. The Wallace plant consists of one (1) Allis-Chalmers cone crusher and two (2) conveyors. A spray bar was installed on the crusher.

Next, a discussion was had with Jeremy and Kevin regarding air quality compliance with their crushing plant. I provided Jeremy and Kevin a copy of the General PTI, the AQD relocation notice guidance, and the *Michigan Environmental Compliance Guide for Mineral Crushing Facilities*. I explained to them that their crushing plant is currently not in compliance and the requirements they need to meet in order to come back into compliance. A letter of violation will be issued for the following:

1. The source has not conducted Method 9 testing on NSPS Subpart OOO subject equipment as required in Special Condition (SC) 1.8;
2. The source was unable to provide daily and annual records of the amount of material processed at each site that the facility operates as required in SC 1.9;
3. The source has not labeled all associated crushing equipment as required in SC 1.11;
4. The source has not updated the AQD with the purchase of new equipment and the submittal of an EQP5756 form as required in SC 1.12;

5. The source has not provided relocation notices for each time the plant moves to a different site as required in SC 1.13.

The company agreed to start submitting the proper relocation notice information, labeling all associated equipment, keeping a logbook of the amount of material crushed daily and areas of the plant that were watered, and attend smoke school to become Method 9 certified to perform the initial VE testing on equipment.

Compliance

Based on this inspection, it appears that Havelka Construction is not in compliance with General PTI No. 44-10 and all applicable air pollution control rules and federal regulations.



Image 1(Flat Rock Pit) : Havelka Construction crushing plant at the Flat Rock plant in Wallace, MI.

NAME Michael Miller

DATE 8/6/20

SUPERVISOR ECH

