

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

P111864974

FACILITY: Bacco Construction Company	SRN / ID: P1118
LOCATION: 15 W County Highway 432, GULLIVER	DISTRICT: Marquette
CITY: GULLIVER	COUNTY: SCHOOLCRAFT
CONTACT: Kyle Fortier , President	ACTIVITY DATE: 10/04/2022
STAFF: Lauren Luce	COMPLIANCE STATUS: Compliance
SUBJECT: Targeted Inspection FY23	SOURCE CLASS: MINOR
RESOLVED COMPLAINTS:	

Facility: Bacco Construction Company (SRN: P1118)

Location: Co Rd 424, Mastodon Township, MI

Contact: Kyle Fortier, President, (906) 282-1002

Steve Jahfetson, Superintendent

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

Bacco Construction Company is a general contractor, asphalt material producer, and pavement contractor based out of Iron Mountain, MI. The company began crushing operations in approximately 2019.

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 facility is subject to the federal New Source Performance Standards (NSPS) Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants and is required to report its annual emissions to Michigan Air Emissions Reporting System (MAERS). However, the facility was not flagged for MAERS and did not report. The facility is now flagged and will be automatically added to the MAERS mailing list.

Compliance History

The facility has not been inspected previously.

Regulatory Analysis

Bacco Construction Company is subject to General Permit to Install (PTI) No. 31-20 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

On October 4, 2022, AQD Staff (Lauren Luce) conducted a targeted inspection on Bacco Construction at the Split Rock Quarry located on County Road 424 in Mastodon Township, MI. The pit is located south of the City of Crystal Falls in Iron County. AQD Staff arrived at the facility and met with Steve Jahfetson, Superintendent. It was explained that the purpose of the inspection was to ensure compliance with PTI No. 31-20 and all other state air pollution control rules and federal regulations. The inspection began by checking for visible emissions. Operations, on-site equipment, and records were then discussed, and a walkthrough of the process and equipment was provided.

Process equipment was inspected for labels and water sprays where required. Water sprays were observed on required equipment. The table below lists the equipment that was observed on-site and labeled. Visible emission test records were provided via email following the inspection for each piece of crushing equipment on-site. All equipment passed the tests for their opacity limits.

Equipment	Label	VE Tested
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Conveyor	2552	05/22/20
Conveyor	0502	07/23/05
Conveyor	2544	5/22/20
Conveyor	1400	07/23/05
Screen Plant	2550	07/15/15
Primary Crusher, Lippman	2549	07/09/02
Twin Screen Plant (not in use)	2553	8/3/21
Crusher Nordberg (not in use)	1501	09/03/15
Crusher Grey Hawk (not in use)	X1336	5/22/20
Conveyor, Slidepac (not in use)	2554, 2555, 2556	8/31/16

The plant was operating at the time of arrival. Rip rap was being produced. The drop heights from conveyors to transfer points were kept low to minimize dust. No visible emissions were observed from the storage piles. The plant roadways appeared well saturated and watering took place during the inspection. No exceedances of visible emissions were observed from any equipment. Additional equipment on-site included a diesel engine for power generation, water tanker, and loaders.

Annual throughput records were requested for 2021, 2022. A daily total for October 3rd and 4th, 2022 was also requested. Total throughput for 2021 was 465,747 tons. Total throughput to date for 2022 is 227, 165 tons. On October 3rd and 4th, 2022, total throughput was 5,330 tons. No asbestos tailings or asbestos-containing waste materials are processed through the plant.

The facility has submitted a EQP5757 form for relocation notices.

Compliance

Based on this inspection, it appears Bacco Construction Company is in compliance with PTI No. 31 -20 and all other state air pollution control rules and federal regulations. It was conveyed to the facility that no violations were observed during the on-site inspection.



Image 1: Material coming off conveyor



Image 2: Water being applied

NAME *Sam Sam*

DATE 10/18/2022

SUPERVISOR *Michael Kaplan*