

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

P135769335

FACILITY: Mid Michigan Materials-Vella Pit		SRN / ID: P1357
LOCATION: 4984 EARHART ROAD, ANN ARBOR		DISTRICT: Jackson
CITY: ANN ARBOR		COUNTY: WASHTENAW
CONTACT: Robert Wilson , Vice President		ACTIVITY DATE: 10/02/2023
STAFF: Mike Kovalchick	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: Compliance inspection of a sand and gravel operation. No dust observed.		
RESOLVED COMPLAINTS:		

Minor Source: Compliance Inspection

SRN: P1357

Facility Contacts

Robert Wilson-Vice President ph 810-327-2548 Email: rwilson@midmichiganmaterials.com

6966 Fisher Road, Jeddo MI 48032

Nick Koch-Foreman

Purpose

On October 2, 2023, I conducted an unannounced compliance inspection of Mid Michigan Materials-Vella Pit (Company) located at 4984 Earhart Road near Ann Arbor, Michigan in Washtenaw County. The purpose of the inspection was to determine the facility's compliance status with the applicable federal and state air pollution regulations, particularly Michigan Act 451, Part 55, Air Pollution Control Act and administrative rules and General Permit to Install (PTI) # 150-02.

Facility Location

The facility is located in a rural area just outside the City of Ann Arbor Closest residential home is about 200 feet south of the property line and about 500 feet WSW of the edge of the current location of the quarry.

Facility Background

This facility consists of a sand and gravel mining, washing and processing operation. This location has not been inspected by AQD previously.

The Company acquired the Bechtel Pit located at 5278 Churchill Road, Brown City Michigan in 2019 from Paul Bechtel Sand & Gravel. (Refer to SRN N7151) This location has a portable crushing permit PTI# 150-02 associated with it. In 2021, this crushing plant was relocated to the Vella Pit location after giving proper notice to AQD about its location. In May of 2023, the crushing plant was relocated back to the original location but left behind a 450 ton/hour primary crusher (Portec-Pioneer Model CS-2436 YR 1995) at the Vella Pit.

Recently the Company decided to seek a new/separate air permit at the Vella pit since the plan to permanently keep a crusher at this location and to modify the existing permit for the Bechtel Pit. A permit modification was submitted on 9/21/2023 to AQD.

Also, in September 2023, one dust complaint was received. Some dust reportedly accumulated on vegetation surrounding a nearby residence who was also concerned about breathing related health problems.

Regulatory Applicability

General PTI 150-02.

40 CFR Part 60 Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants.

Arrival & Facility Contact

No dust was noted upon my arrival off Earhart Road. I arrived around 10 am, proceeded to the facility office to request access for an inspection, provided my identification and spoke with foreman Nick Koch (NK). I informed him of my intent to conduct a facility inspection.

JW extended his full cooperation and fully addressed my questions.

Onsite Inspection

NK gave me a tour of the facility which included first visiting a primary crusher rated at 450 ton/hour. This crusher was equipped with a water spray bar and a water tank. The spray bar needed a new part and wasn't operating during the inspection. However, despite this, no dust was observed from the actively operating crusher as the material being processed was mostly moist sand mixed with rocks. Next, we visited other locations inside the quarry including the wash plant and various material storage piles (See attached photos.) No dust was observed either in the air or on vegetation that surrounded the operation nor from any of the conveyors, feeders, screens or storage piles. A water truck was observed. NK indicated that the truck waters all accessible areas at least a couple of times a day and had already been out that morning. Occasionally, an outside contractor is used to apply brine to the roads. Finally, we visited an area just West of the existing quarry. This area is significantly elevated above the quarry floor and is being prepped for future quarry expansion. It appeared that vegetation had been recently removed and the ground graded. It is probable that this area was likely the cause of recent dust complaint. (See attached photo.) No dust was observed in this area either as it appeared that they had mostly finished work in this area for present time. Overall, given the type/moisture content of material and the high levels of water in the quarry, the potential for dust generation is much lower than other quarry locations that we inspect.

Permit Requirements Review

In this case, it made the most sense to review 2023 MAERS submittal as it included emissions generated from the Vella pit. The Company reported 832,745 tons of material processed which generated about 4 tons of PM-10 emissions using MAERS emission factors and assuming 80% control. This shows compliance with the production limits in the General PTI.

Per AQD inspection report dated 6/30/2021 for SRN N7151, the equipment was reviewed for NSPS compliance. The original opacity test information had been lost so new NSPS testing was completed in 2019 with no non-compliance observed.

Post-Inspection Meeting

I held a brief post-inspection meeting with NK. I requested that he follow-up with any permit information that the Company had for the crusher. (The Company's attorney submitted information to AQD the same day.) I indicated to him that I would be sending him an inspection report that outlined my findings. I noted that it was important to keep any dust that is generated to a minimum.

I thanked NK for his time and cooperation and I departed the facility at approximately 11:30 am.

Compliance Summary

The Company is in substantial compliance with their permit and any compliance concerns with equipment reconfigurations will be resolved with the issuance of the new General PTI permit which is currently pending.



Image 1(Crusher) : Primary crusher



Image 2(Wash Plant) : Wash Plant



Image 3(Wash Plant) : Part of wash plant.



Image 4(Quarry) : Quarry looking east.



Image 5(New Area) : New area being prepped for future expansion.



Image 6(New Area) : New area being prepped for future expansion.

NAME Mike Kovalchik

DATE 10/2/2023

SUPERVISOR 