

P1114
MAY 24DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

P111473147

FACILITY: Dino-Mite Crushing & Recycling, LLC		SRN / ID: P1114
LOCATION: 12625 Greenfield Road, DETROIT		DISTRICT: Detroit
CITY: DETROIT		COUNTY: WAYNE
CONTACT: Anthony Calo , Agent		ACTIVITY DATE: 06/28/2024
STAFF: Terseer Hemben	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Fugitive Dust source-Concrete Crushing.		
RESOLVED COMPLAINTS:		

COMPLIANCE INSPECTION OF DINO MITE CRUSHING & RECYCLING

June 28, 2024

12625 Greenfield Road, Detroit, MI

SRN: P1114

County: Wayne

Present: Shift loading operator

Inspector -Terseer Hemben (EGLE)

FACILITY BACKGROUND

The Dino-Mite Crushing & Recycling, LLC (Dino-Mite) is located at 12625 Greenfield Road, Detroit. The facility installed and operated a concrete crusher, Silo, loader, with weight scale. The facility has water sprinkling system that wets the surfaces and concrete piles. There is a water pool that rinse tire trucks free of caked dust-off vehicles that exit the facility premises after loading. The facility operates under Permit to Install (PTI) #13-16 and PTI #48-18A. The equipment permitted under PTI #48-18A had been relocated elsewhere and was replaced by the equipment permitted under PTI #13-16. Responses to questions prepared for emission accounting were based on the readings of both permits as applied to specific events and time of operations.

The Dino-Mite facility operation is regulated under Federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60, Subparts A and OOO, which covers nonmetallic mineral processing plants.

INSPECTION NARRATIVE

I arrived at the 12625 Greenfield Road, Detroit at 1340 hours on July 5, 2024. The purpose of visit was to conduct an unannounced compliance inspection of the Dino-Mite Crushing & Recycling operations with reference to the PTIs and 40 CFR, Part 60, Subparts A and OOO. The weather was sunny when I arrived. Temperature was 75F, wind speed 6 mph coming from the Varying directions, and humidity 51%. I approached the site via Greenfield Road northbound and turned left onto the driveway. I drove onto the side road and parked on the concrete pavement close to the front office. There were trucks on the site waiting to pick up loads. Trucks drove into the loading area using auto-mechanical concrete loading system installed at the site to pick the due load. There was crushing of concrete at the time of my visit. Water sprinklers were fully on, and sweepers were active. There was no stirred up dust in the air at site as grounds had been wetted with suppressants. The facility was swept and cleaned. I

inspected the manual loading procedure, concrete, and the concrete wall mounted around piles. The yard was organized in satisfactory manner in compliance with the fugitive dust abatement requirements. I submitted my request for records to Dan Calo's representative for the site production records. Dan sent the records of site indicating regular dust suppressing practice. I left the area at 1430 hours. Dan provided copies of dust maintenance schedule but pledged to send production records through the email. Natural Resources Management sent the records on the behalf of their customer, Dino-Mite via email attachments.

COMPLAINT/COMPLIANCE HISTORY:

The Dino-Mite located at 12625 Greenfield Road, Detroit, has been a concern of citizens through fugitive dust complaints since the COVID19 lockdown.

OUTSTANDING VN:

None

PROCESS DESCRIPTION:

The Dino-Mite operates concrete mixing processes at 12625 Greenfield, Detroit location. The installed equipment comprised a concrete crusher, mixer, Silo with mechanical product loader, dust sweeper, water sprinkler for dust suppression and a weight scale.

EQUIPMENT AND PROCESS CONTROLS:

Same as listed in the process description.

OPERATING SCHEDULE/PRODUCTION RATE:

The Dino-Mite was set up to operate full three shifts covering 24 hours, through 7 days per week, and 365 days of the year. However, the company operates at the rate dictated by demand. The facility keeps in-person employees at the site during loading or unloading of the concrete materials.

APPLICABLE RULES, PERMITS TO INSTALL, and 40 CFR 60, Subparts A and OOO:

The Dino-Mite operations was evaluated consistent with each permit conditions. PTI #13-16 is a General PTI and PTI #48-18A is specific to this location. The inspection determined the facility was in the following compliance state:

Per permit conditions

Visible Emission Limits: Compliance. Equipment met visible emissions limits while equipment was observed on-site.

Material Limits: Compliance. Response stated the material processing throughput did not exceed 600,000 tons of material through FGCrushing per 12-month rolling time period. Calendar year throughput is listed at 323,635 tons in the Annual Emission Report for 2023.

Process operational restrictions per Appendix B: Response stated the conditions stated in Appendix B were implemented and maintained according to 40 CFR 60, Subparts A & OOO

Design Equipment Parameters: Compliance. Response stated that All water sprays on the crusher and screen were installed and operated in a satisfactory manner. Inspector observed compliance during the inspection visit.

Belt Scale: Compliance: Response stated the belt scale was installed and maintained on the transfer conveyor.

Monitoring: Response indicated besides the daily and rolling 12-month throughput of material processed, there were no additional calculations required in this part of permit, other than the annual emissions reporting. The 12-month rolling processing material records were up to date and kept at the main office located at 7871 Chubb Road and were available for review.

Fugitive Dust Plan: Response stated the FDP and operational plan describing the continuous fugitive dust control measures for the site was being implemented on continuous basis. The copies of records were kept on site.

Dust suppressant application: Response stated all current daily records of water truck used for dust suppressant and sweeper trucks used on-site and along the hauls route were kept on the site

Reporting: Response stated a notice of relocation was submitted to EGLE prior to relocating the processing plant on November 1, 2021. A copy of the notice is attached.

Appendix B-Nuisance minimization plan for Fugitive Dust:

Site Roadways/Plant yard applications- all requirements were observed, and records maintained. The current water suppressant logs were kept on site.

All paved roadways and plant yards were swept. Records of maintenance were kept on site.

Any material spillage was immediately cleaned up. Records of clean up were kept onsite.

Plant operations-transfer points and drop heights were minimized to the maximum extent practicable to control fugitive dust emissions.

Storage Piles: Transfer points and drop heights were minimized to the maximum extent practicable to control fugitive dust emissions.

Stockpiles: All current water suppressant logs were kept on site, and they demonstrate compliance.

Truck Traffic: Dino-Mite required truck drivers to tarp all loads before leaving the facility to control fugitive dust emissions during transport. A sign was posted on site to remind drivers of the requirement to tarp loads.

DETERMINATION

The Dino-Mite Crushing & Recycling facility located at 12625 Greenfield, Detroit, was inspected. The facility met the conditions in PTI #13-16 and PTI #48-18A as applied. Fugitive dust control requirements were met. Recordkeeping practice met the operative requirements for Cement, Concrete, and construction industrial operations. The 2023 Annual Emissions Report indicated no material exceedances. The facility operated in compliance with the permit conditions.

NAME



DATE

8/19/24

SUPERVISOR

