

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

P013830133

FACILITY: Fisher Sand & Gravel Co		SRN / ID: P0138
LOCATION: 1540 South Clare Ave, HARRISON		DISTRICT: Saginaw Bay
CITY: HARRISON		COUNTY: CLARE
CONTACT: Dean Gatehouse , Superintendent		ACTIVITY DATE: 05/27/2015
STAFF: Sharon LeBlanc	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled inspection of portable crusher plant. sgl		
RESOLVED COMPLAINTS:		

On Wednesday, May 27, 2015, AQD District Staff arrived onsite to conduct a scheduled- site inspection for Fisher Sand and Gravel Company (AKA Fisher) Portable Plant SRN P0138. A relocation notice dated May 8, 2015, for the equipment indicated that the Portable Unit had been moved to Gambles Redi-Mix, Harrison, Michigan.

The referenced equipment is permitted for a portable crusher under General Permit No.150-10, approved on July 28, 2010. However, the plant was not operated until apx. 2014. Permit modification were issued on July 22, 2014 and May 19, 2015. Site inspection was conducted with the intent of confirming operational status as well as compliance with the referenced permit.

The plant was operating upon arrival, and the inspection was conducted with the onsite operator (Mike Fox).

FACILITY DESCRIPTION

The referenced plant was operated as a recycle plant, and was being used to crush a concrete and sand mix in a pit associated with the Gambles Redi-Mix Facility on N. Clare Ave, Harrison, Michigan.

COMPLIANCE HISTORY

The facility is fee subject site (subject to NSPS OOO), and reports annual emissions through the MAERS. The most recent submittal was for the calendar year 2014, and was submitted on March 6, 2015.

COMPLIANCE EVALUATION

For the purposes of this compliance evaluation, the Recycle Plant will be evaluated with reference to equipment permitted under General Permit 150-10 and the above referenced modifications.

Process Equipment-

Equipment associated with the portable crusher P0138/ General Permit 150-10 and it's recent modifications included:

Device	ID No.	Tested	Date
July 28, 2010 Permitted Equipment			
Transfer Conveyor	8580	yes	11/12/2010 9/17/2010?
Radial Stacker	4518	Not required	Endpoint-
Transfer Conveyor	4506	Yes	11/12/2010
Transfer Conveyor	4513	Yes	9/18/2010
July 22, 2014 Modification Supplemental Equipment			
Fabtec impact crusher	4600	Yes	8/29/2000

Pioneer Crusher	Jaw	4504	Yes	10/22/96
May 19, 2015 Modification Supplemental Equipment				
None				

U.S. EPA Method 9 testing was conducted for the permitted equipment by a certified opacity reader on the dates presented above.

Condition 1.7 requires that each crusher and screen be equipped and maintained with water sprays, and that they shall be operated as necessary to comply with emission limits. The present system makes use of spray nozzles, the water source for the wet suppression was being pumped from a tanker truck onsite.

Material Use –Condition 1.3 of General Permit 182-10 limits the facility to a maximum of two million tons per site for the portable plant. Per the permit, both crushers onsite were reported to have a maximum capacity of apx. 400 tons per hour and limits the throughput. The onsite operator records indicated that year to date for the equipment was approximately 10,500 tons.

Condition 1.9 requires that records of daily and annual records of the amount of material the plant processes be kept. AQD staff confirmed that the records are kept on a daily basis by the operator of each plant, records for more than the present season are kept at the main office. Totals to date for the job were available onsite..

Condition 1.5 restricts the permit to non- asbestos containing material, and specifically restricts the crushing of any asbestos tailings and asbestos containing materials. Mr. Gatehouse and Mr. Fox have both reported that the permitted equipment was used solely for recycled concrete/stone materials.

Visible Emissions – Condition 1.2 of General Permit 150-10 limits VE from the feed hopper, screen, conveyors, transfer points and rotary lift to no greater than 10% opacity, and VE from both the jaw crusher to no greater than 15% opacity. VE observations were taken by certified District Staff during the site inspection, and it was determined that wet suppression was adequate.

Under condition 1.8, VE testing for equipment subject to NSPS subpart OOO is required within approximately 180 days of startup. U.S. EPA Method 9 testing was conducted for the permitted equipment by a certified opacity observer on the dates presented above.

Condition no. 1.6 requires the plant to have a program to control fugitive emissions and implement conditions in Appendix A. At the time of the inspection, it was noted that the roadways were watered down, to minimize fugitives from truck traffic. The facility itself does not have a fugitive dust policy, and District Staff spoke with the Gambles Redi-Mix regarding a recent dust complaint received for their facility.

Other – Special condition 20 covers limitations and requirements with respect to the location and relocation. Special condition 20.b restricts the occupation of a physical location for more than 12 months. As previously noted this is not the normal operational location for the equipment during the operational season.

Condition 1.13.c defines a minimum distance of 500 feet between the portable material crushing plant and the nearest residence, commercial establishment or place of public assembly. A review of data for the site indicated that when located at the far western edge, the permitted crusher is over 500 feet from the nearest residence, etc.

Condition 1.13.d requires that the permit be posted in the operator's office or work station and the permit number posted on the equipment. Fisher Sand and Gravel maintains a copy of the permit in their work trailer onsite. However, the permit number is not posted on the equipment. Each piece of equipment is clearly marked with an individual ID No. consistent with newer permits.

Summary – On Wednesday, May 27, 2015, AQD District Staff arrived onsite to conduct a scheduled- site inspection for Fisher Sand and Gravel Company (AKA Fisher) Portable Plant SRN P0138. A relocation notice dated May 8, 2015, for the equipment indicated that the Portable Unit had been moved to Gambles Redi-Mix, Harrison, Michigan.

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The plant was operating upon arrival, and the inspection was conducted with the onsite operator (Mike Fox). A total of 6 pieces of equipment were onsite to complete the contracted work. No compliance issues were noted.

NAME Sharon M. Blake

DATE 7/9/2015 SUPERVISOR C. Hance