

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

B162050149

FACILITY: CENTRAL ASPHALT INC.		SRN / ID: B1620
LOCATION: 2290 MAY ST, MOUNT PLEASANT		DISTRICT: Saginaw Bay
CITY: MOUNT PLEASANT		COUNTY: ISABELLA
CONTACT: Jeff Spagna , Plant Manager		ACTIVITY DATE: 08/29/2019
STAFF: Benjamin Witkopp	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Inspection		
RESOLVED COMPLAINTS:		

Ben Witkopp of the Michigan Department of Environment, Great Lakes, and Energy conducted an inspection of Mt Pleasant Central Asphalt. The permanent hot mix asphalt (HMA) plant is covered by permit to install 74-86B. Mr. Jeff Spagna provided an overview of the facility operation and practices. Jeff has been Plant Manager since 2017, has 25 years experience in the industry, and has managed several other plants. The facility shares the site with Central Concrete and Fisher Transportation. An office building located at 900 South Bradley house all three companies.

The plants drum has a parallel flow. Jeff said the unit is rated at 700 tph but realistically he believes it to be 600. Their typical idle rate is about half of that. At the time the unit was producing 317 tph. Natural gas is used to fuel the plant. Exhaust from the drum is routed through a knock out box and then to a baghouse where particulate is removed. The bag house has 960 bags and runs at 120,000 cfm. On the east side of the drum Jeff had installed a pressure drop indicator along with electronic controls for pulsing the bags in the baghouse. Bags are progressively pulsed every 6 seconds. The pressure drop can be read there or in the control room. The desired pressure drop range is 2 to 5 inches of water. At the time it was 3.7. Collected particulate is returned to the HMA mix. Exhaust from the baghouse is discharged vertically through a square stack. Produced HMA is sent to silos for loadout. The plume from the stack was basically steam as no visible emissions could be seen as the plume dissipated.

The loadout of HMA occurs in two separate truck bays located on the north end of the facility. Trucks enter from the east and doors then close behind them. There are 4 separate exhaust pick up points located along both the north and south sides of each bay. The pick up points are up high and the exhaust is routed to the drum as a portion of the combustion air. Exhaust from the silos is also routed there as combustion air. On the west end of the load out there are short strips of vinyl hanging from the top of the bay. They basically meet the top of the truck cabs. There can't be fixed doors on the end for safety reasons in case something happened inside the load out. No emissions were seen coming from the load out area.

We then went inside to Jeff's office to review records. There are a number of permit requirements and recordkeeping requirements concerning the use of fuel oil. However, no oil is used as the plant is fired with natural gas. Pertinent requirements consist of maintenance checks / activities production records, and emissions calculations.

Maintenance records were checked from when Jeff became the plant manager in 2017 to current. Checks are routinely performed on the baghouse by various individuals. Jeff said he typically accompanies them. Check lists cover multiple items listed under four separate categories. The categories consist of the hopper, housing, pulse cleaning, and filter media / hardware. The check lists allows rating each of the items under each category. An area is also available for remarks. Near the end of each year of production a check is also done. A very thorough check is conducted off season to inspect those items that can not be inspected when the unit is operating. Any required maintenance is performed.

Jeff also maintains a list of all repairs / upgrades conducted on the plant during the winter off season months. Descriptions, costs, and actual invoices are kept. He also tracks the amounts of fuel, mix produced, RAP used, % RAP and emissions. The % RAP used was typically in the low to mid 20% range with the highest being 26%. The permit limit is 50%. The records were available per month as required by the permit.

The permit has limits on the amounts of CO and SO₂. CO is less than 90.0 tpy while SO₂ is 85.6 tpy. Both limits are on a 12 month rolling time period. There is also a production limit of 895,000 tons of HMA in a 12 month rolling time period. Jeff said his boss provides the emissions calculation each month and he inputs them into the records so the 12 month rolling time period amounts are available. For the 12 month time period ending in June of 2019 a total of 303,544.18 tons of HMA were produced. CO amounts were 30.05 tons while SO₂ was only 0.64 tons. SO₂ is very low as the facility does not burn oil.

Lastly we went to the control room. They were projected to produce 2,100 - 2,200 tons that day and had already produced 1,743 tons. The current HMA production target rate was 300 tph. The current rate of material use was: Agg 227 tph, RAP 74 tph, and AC 13.3.

The facility appeared to be well maintained, all required records were being kept, and all items limited in the permit were well below those limits. The facility is considered to be in compliance.

NAME

B. Vukobratovic

DATE

8-6-19

SUPERVISOR

C. Gao