

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

N098926230

FACILITY: Cadillac Asphalt - Shelby Plant		SRN / ID: N0989
LOCATION: 12345 23-Mile Road, SHELBY TWP		DISTRICT: Southeast Michigan
CITY: SHELBY TWP		COUNTY: MACOMB
CONTACT: Bob Boniecki , Plant operator		ACTIVITY DATE: 07/28/2014
STAFF: Joyce Zhu	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: annual inspection		
RESOLVED COMPLAINTS:		

On 7/28/2014, I conducted an annual inspection at Cadillac Asphalt LLC. The facility is located on 12345 23 Mile Rd., Shelby Twp. I arrived at the facility around 11:30 AM. I met with Mr. Brad Hillard, the Division Manager, in the front office and explained the purpose of the inspection. Then, he took me to the control room where I met Mr. Bob Boniecki.

Inspection:

Permit No. 989-84C

The permit covers for the hot mix asphalt (HMA) process. The company has paved all roads including those go to the storage piles. When I arrived at the facility, I saw the road at the entrance was very dusty especially during trucks leaving the facility. I pointed out the dusty road to Brad. He told me they just swept the roads over the weekend; nevertheless, he called to have the sweeping truck back again. At the entry of the facility, there is a speed limit sign posted for the trucks entering the facility. They use a counter-flow direct fire rotary drum (UV-500). Natural gas is the only fuel used in the process. A baghouse with a pressure drop monitoring device has been installed to control the particulate emission from the HMA process. They calibrated the pressure monitoring device for the baghouse & conducted a black light test for the control this spring. According to Bob, they replaced bags in the baghouse two years ago. They visually check the piping & seal of the baghouse daily before start-up. They operate about 8 hours a day. They have produced 62,000 tons of HMA since the start of the operation this year. During the inspection, I didn't see any fallout near the baghouse; nor did I hear any air infiltration from the baghouse. However, I observed some corrosive appearance at the exhaust fan area. I didn't see any leak from the mixer, the storage bin, and most of the transfer points; but I saw some fallout at one of the conveyors. The following data were collected during the inspection: They did not use any RAP material. Virgin aggregate feeding rate was at 301 TPH; the production rate, 902 TPH. The burner position was at 40%; exhaust fan damper position, 65%; and the aggregate moisture content was at 6.0%. The material discharge temperature was at 325 F; and the baghouse outlet temperature, 72 F. The pressure drop across the baghouse was at 2.75 inches of water (same as the last inspection). The company keeps the following records

1. The date, time, & findings of the visual inspection of the interior of components of the fabric filter dust collector
2. CO monitoring data
3. Maintenance records of the baghouse
4. Annual fugitive dust emission calculation of particulate matter from the yard
5. Monthly as well as during 12-month rolling time period emissions for each single HAP, HAPs, PM, CO, VOC, NOx, SO2, & lead.
6. Hourly production of HMA materials

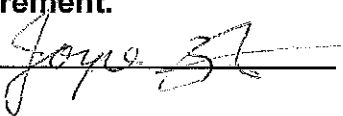
7. Monthly as well as during 12-month rolling time period HMA production
8. Black light inspection including dates, time, & findings (number of bags replaced)
9. Daily records :

- Virgin aggregate feeding rate & the RAP feeding rate
- The asphalt paving material production temperature
- Asphalt material components
- Tons of hot mixed asphalt (HMA) produced, including the average of % RAP in the HMA.
- The pressure drop of the baghouse


According to the company's record, the pressure drop of the baghouse has kept at 2.7 inches of water since May 1, 14. The calculated emissions have been below the corresponding emission limits since the start-up of this year. The company conducted the carbon monoxide monitoring on May 22. The sample analysis showed that the average CO concentration observed during the monitoring period was at 330 ppmv. The total HMA production during the 12-month rolling time period has been less than 150000 tons (permit limit 1,000,000 tons annually) since February this year.

In conclusion, the facility appeared to operate in compliance with the permit requirement.

NAME



DATE



SUPERVISOR

