



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: JUL 24 2019

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Reliable Asphalt, Chicago, Illinois

FROM: Jason Schenandoah, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Chief
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Reliable Asphalt

Facility Location: 3741 South Pulaski Road, Chicago, Illinois

Date of Inspection: June 20, 2019

EPA Inspector(s):

1. Jason Schenandoah, Environmental Engineer
2. David Sutlin, Environmental Engineer

Other Attendees

1. Paul Etter, VP General Manager, Reliable Asphalt
2. Bob Madden, Equipment Manager, Bigane Paving Company
3. Paul Alfich, Oiler, Bigane Paving Company

Contact Email Address: rmadden@biganepaving.com

Purpose of Inspection: To determine compliance with the Clean Air Act.

Facility Type: Asphalt paving mixture manufacturer

Arrival Time: 8:11 am

Departure Time: 9:50 am

Inspection Type:

- ☒ Unannounced Inspection
☐ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
☒ CBI warning to facility provided

The following information was obtained verbally from Bigane Paving Company (Bigane) unless otherwise noted.

Company Ownership: Reliable asphalt owns the asphalt plant, but Bigane operates the plant.

Process Description:

Reliable Asphalt uses virgin aggregate in every batch that is manufactured. Depending on customer needs, the asphalt specifications can also require certain percentages of fine recycled asphalt pavement (RAP), course RAP, and Recycled asphalt shingles (RAS). Virgin aggregate is sent through a natural gas fired dryer to remove moisture and add heat before being sent into the mixer. Liquid asphalt, RAP/RAS and other additives are added at the mixer. The dryer and mixer are in series. The asphalt materials flow from dryer to mixer, but the air flow is countercurrent to the material flow. Emissions from the mixer and dryer are routed to a baghouse. From the mixer, asphalt is dropped onto a conveyor and sent to a series of storage silos. Asphalt is released from the silos through a trap at the bottom and loaded into trucks to leave the facility.

Staff Interview: The amount of recycled material that can be used at the mixer is limited by heat transfer from the raw aggregate to the RAP, RAS, and liquid asphalt and the maximum operational temperature of the dryer. Approximately 6-7 years before this inspection, the asphalt plant was retrofitted with new technology. Two additives were discussed during the inspection: rejuvenator and Evotherm. Rejuvenator is used to soften the recycled material to make the mixing process more efficient. Evotherm is used in the colder months of operation to hold heat in the asphalt and make spreading the asphalt easier.

TOUR INFORMATION

EPA toured the facility: Yes

Photos and/or Videos: were taken during the inspection.

Field Measurements: were not taken during this inspection.

CLOSING CONFERENCE**Requested documents:**

- Safety data sheets for the following:

- Evotherm
- Rejuvenator
- Liquid asphalt
- Liquid cold patch
- 2016-2018 Air Emission Reports
- Reports for all stack tests that occurred after plant retrofit occurred.

SIGNATURES

Report Author: _____

Date: _____

Section Chief: _____

Date: _____

Facility Name: Reliable Asphalt

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APPENDICES AND ATTACHMENTS

Appendix A: Digital Image Log

Facility Name: Reliable Asphalt
Facility Location: 3741 South Pulaski Road, Chicago, Illinois
Date of Inspection: June 20, 2019

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Jason Schenandoah	2. Date(s) of Inspection: June 20, 2019
3. Company/Facility Name: Reliable Asphalt	4. Street Address, City, State: 3741 South Pulaski Road, Chicago, Illinois
5. Number of Images: 11	6. Archival Record Location: Photos/videos are saved to a CD-R labeled " <i>Reliable Asphalt, Chicago, IL; 6-20-2019 Inspection: Images</i> "

Image Number	File Name	Date and Time (incl. time zone and DST)	Description of Image
1	IR_0071.jpg	6/20/2019 8:29	FLIR image of baghouse stack
2	MOV_0072.mp4	6/20/2019 8:30	FLIR video at baghouse stack
3	IR_0073.jpg	6/20/2019 8:44	FLIR image of mixer/conveyor junction
4	MOV_0074.mp4	6/20/2019 8:48	FLIR video at top of drag conveyor leading to silos
5	IR_0075.jpg	6/20/2019 8:51	FLIR image at front end of mixer with pipe feeding liquid asphalt into mixer
6	DC_0076.jpg	6/20/2019 8:56	Rejuvenator product label
7	MOV_0077.mp4	6/20/2019 8:57	FLIR video of silo load-out
8	MOV_0078.mp4	6/20/2019 8:59	FLIR video of silo load-out
9	DC_0079.jpg	6/20/2019 8:59	Cyclone with input duct from dryer and output duct to baghouse
10	DC_0080.jpg	6/20/2019 9:00	Exhaust duct from back end of mixer to dryer/mixer junction
11	DC_0081.jpg	6/20/2019 9:00	Dryer, exhaust duct, and baghouse in background