

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

N093429003

|   |                               |                           |
|---|-------------------------------|---------------------------|
| FACILITY: EAGLE MINE LLC - HUMBOLDT MILL                          |                               | SRN / ID: N0934           |
| LOCATION: 4547 COUNTY ROAD 601, CHAMPION                          |                               | DISTRICT: Upper Peninsula |
| CITY: CHAMPION  |                               | COUNTY: MARQUETTE         |
| CONTACT: AMANDA ZEIDLER, SPECIALIST                               |                               | ACTIVITY DATE: 02/18/2015 |
| STAFF: Ed Lancaster   | COMPLIANCE STATUS: Compliance | SOURCE CLASS: MINOR       |
| SUBJECT: Conducted a scheduled, announced, compliance inspection. |                               |                           |
| RESOLVED COMPLAINTS:  |                               |                           |

I arrived at the Eagle Mine-Humboldt Mill and met with Ms. Amanda Zeidler for an announced, scheduled compliance inspection. Upon arrival the temperature was in the negative teens with an expected high for the day of negative one, therefore I decided that I would only review the facility's recordkeeping requirements as identified in their Permit to Install (PTI) No. 405-08A and return at a later date to inspect the production side of the operation. The Mill started operations on August 12, 2014 and came on line in full production on September 15, 2014.

During the first week of February 2015, the company hired a consultant to perform stack testing for PM and evaluation of visible emission readings as required by their PTI No. 405-08A and 40 CFR Part 60 Subpart LL. The PM stack tests were for the emission units EUFINEORESTORAGE and FGSECONDCRUSH. Visible emissions were evaluated for EUFINEORESTORAGE, EULOAD, FGCOSA, FGSECONDCRUSH, and FGCONPLANT. The stack test and visible emission evaluation results were received on March 23, 2015.

### EUFINEORESTORAGE

The PM stack test results showed this emission unit (EU) was in compliance, with its Emission Rates of 0.02 lbs/hr and 0.0010 lbs/1,000 lbs of exhaust gases (Special Condition (SC) Nos. I.1 and 2 and V.1 and 2). The opacity limit (SC No. I.3) had an average opacity of 0%, from the dust collector, DC002, stack point.

The Company submitted their Malfunction Abatement Plan, for their baghouse dust collector and continues to implement the plan on a daily basis based on company records (SC No. III.1.a-c). The company has a continuous monitor to measure the pressure drop across the dust collector (SC Nos. IV.1-3).

Ms. Zeidler provided me with daily records (see file) of the emissions for the time period August 1 through December 31, 2014 (SC Nos. VI.1 and 2).

### EULOAD

As mentioned above all EUs were in compliance with their visible emission limits (SC Nos. I.1 and V.1), and reported written notification of construction and operation dates (SC No. VII.1).

### FGCOSA

Similarly all EUs within the COSA were in compliance with their visible emission limits (SC Nos. I.1-4 and V.1).

Ms. Zeidler informed me the crushing typically occurs between 6 PM and 6 AM and the operation is controlled by an interlock system set at 350 tonnes per hour, which allows production up to 385 tons per hour (SC Nos. II.1 and VI.1), this information was confirmed by the production records she provided to me. The ore feed rate to the dump hopper is measured by a belt scale (SC No. VI.2).

#### FGSECONDCRUSH

The stack test results showed the PM emission limits from the secondary crusher's dust collector (DC-001) were in compliance. The PM Emission Rates were 0.10 lbs/hr and 0.0018 lbs/1,000 lbs of exhaust gases (Special Condition (SC) Nos. I.1 and 2 and V.1 and 2). The opacity limit (SC No. I.3) had an average opacity of 0%, from the dust collector, DC001, stack point.

As mentioned in EUFINEORESTORAGE, the company submitted their MAP in compliance with SC Nos. III.1.a-c. The Company has a continuous monitor to measure the pressure drop across the dust collector (SC Nos. IV.1-3), and the daily records of the emissions for the time period August 1 through December 31, 2014 (SC Nos. VI.1 and 2) were provided.

#### FGCONPLANT

I did not observe any outside storage piles of any material while at the plant (SC No. III.1). The roads were snow and ice covered and there were no fugitive dust issues (SC No. III.2). Ms. Zeidler informed me all of the plant roads were paved except for the road to the water treatment plant (SC No. IV.1). She also provided me with copies of the Humboldt Mill Trucking Summary for August through December 2014, identifying the number of ore trucks and short tons of material being delivered to the mill from the mine on a daily and monthly basis (SC Nos. III.3 and 4 and VI.1 and 2).

At the time of the inspection the Humboldt Mill appears to be in compliance with the recordkeeping requirements identified in PTI No. 405-08A.

NAME Ed Lancaster

DATE 4/8/15

SUPERVISOR \_\_\_\_\_