

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Records Review (In office)**

B492254578

FACILITY: STONECO INC, Ottawa Lake	SRN / ID: B4922
LOCATION: 7555 Whiteford Rd, OTTAWA LAKE	DISTRICT: Jackson
CITY: OTTAWA LAKE	COUNTY: MONROE
CONTACT: Michael Yeager , Environmental and Mining Technician	ACTIVITY DATE: 08/13/2020
STAFF: Diane Kavanaugh Vetort	COMPLIANCE STATUS: Compliance
	SOURCE CLASS: SM OPT OUT
SUBJECT: SM Opt-Out Facility. Subject to NSPS Subpart 000. PCE records review. FCE inspection under separate entry.	
RESOLVED COMPLAINTS:	

THIS PARTIAL COMPLIANCE EVALUATION INCLUDES RECORDKEEPING RECEIVED AND REVIEWED FOR B4922 STONECO, OTTAWA LAKE, MONROE COUNTY.

Contacts:

Michael Yeager, Environmental and Mining Technician, Stoneco of Michigan A CRH Company, 734-770-1311, Michael.yeager@mipmc.com (MY)

Mark Parran, Plant Superintendent, MParran@mipmc.com (MP)

Sue Hanf, Environmental Engineer, 734-854-2265, shanf@mipmc.com (SH)

On August 10, 2020, AQD Diane Kavanaugh Vetort (DKV) sent the following email to SH and MY, Stoneco, to request required compliance records. Due to the Stay Home Stay Safe COVID-19 current status, AQD is requesting electronic records, and is conducting limited in-person inspections at this time. The Full Compliance Evaluation (FCE) inspection was conducted on-site on August 13th.

DKV Email:

The AQD is requesting that the following monitoring, recordkeeping and reporting related information be submitted electronically on or before August 14, as applicable, acknowledging some information may require additional time. The current Air Use Permit to Install is PTI No. 122-05D (revision - 05E is final drafted but not yet issued). The time period of the required records is August 2019 through July 2020, unless otherwise specified. Records can be summarized by month and/or in spreadsheet format with relevant assumptions, support documentation, formulas, emission factors clearly identified.

EUPROCESS

Condition VI.1. Daily and monthly records of material processed for the 12 month period ending July 2020.

Condition IV.1. Demonstration that all control devices are installed, maintained and operated in a satisfactory manner as listed in Appendix A.

EUTRUCKTRAFFIC

Condition III.2. Fugitive Dust Plan Appendix B.

Condition VI.1. a) and b) Records for the months of May through July 2020.

EUSTORAGE

(See above Fugitive Dust Plant)

EUBLASTING

Condition VI.1. Monthly records for the current operating season.

FUGITIVE DUST PLAN

Appendix B. I. A. Record of all watering/dust suppressant applications for the current operating season.

RECORDS RECEIVED:

On August 17, AQD received the requested records and SH indicated that MY will be leaving them soon. On August 18, DKV sent SH another email requesting more information on one item. SH submitted this information in email on August 21st.

MONTHLY & DAILY PRODUCTION

Ottawa Lake's submitted 2020 OLQ Road Record Keeping Log, and a spreadsheet containing the Production records, Truck traffic, and Blasting data for this 2020 season:

Monthly Production (January 2019 through July 2020): 12 month rolling as of month ending July = 2,374,106 tons (Compliant)

LIMIT: 4,000,000 tons of material per 12 month rolling time period.

Highest monthly total was June 2020: 376,895 tons

Highest daily total was June 20, 2020: 16,233 tons **LIMIT:** 21,600 tons of material per day (Complaint)

TRUCK TRAFFIC

January through July 2020: monthly 50 ton equivalent rolling 12 month period ending July = 57,476 tons (Compliant)

LIMIT: Maximum equivalent of 80,000 - 50 ton transport trucks on a 12 month rolling time period.

DAILY SALES (August 2019 through July 2020)

Highest sale day June 18, 2020 = 20,309.63 tons

BLASTING

Record shows date/time, cubic yards blasted, depth hole, square feet, # blasts, and # holes. Totaled for month for # blasts, and holes, and monthly average square feet. This season blasting has occurred in March (5 days), April (5 days), May (6 days), June (9 days), and July (9 days), one blast per day.

LIMITS: Maximum of 1 blast per calendar day; maximum surface area of any single blast shall not exceed 20,000 FT².

Highest square feet per blast was in June, 2020 at 14,235.20 (Compliant)

BELT SCALE PTI Condition EUPROCESS IV.2: The permittee shall install and maintain a belt scale on the transfer conveyor (B2) portion of EUPROCESS which continuously shows the daily throughput rate for the conveyor.

NOTE: DKV found the initial submittal was missing detail information on the belt scale system. MY, MP and I looked at a computer screen related to this in the control room. During the inspection they described the new system as more comprehensive and monitoring other conveyors as well. I requested information detailed enough to demonstrate compliance with the intent of this condition. From our discussion it appeared the current system was an improvement to the initial device/condition.

SH submitted the manufacturer and model information (attached to report to file). The scale is on the B2 conveyor and continuously shows the daily throughput rate for the conveyor. The belt scale readout is in the control booth. She sent me a screen shot of it also. She said the manufacturer Etheridge did the calibration last year and will be sending them the confirmation on that. Said they are also required to calibrate every year for SOX compliance. The plant operator also monitors the truckloads into the crusher and compares that to the scale reading at B2 on a daily basis.

On August 24, 2020 I received an email from SH with a chart of the calibration information for Ottawa Lake's B-2 conveyor. Email will be attached to this report to file. The calibration was done in December 2019. The company is Etheridge Automation.

2020 OLQ ROAD RECORDKEEPING LOG

FUGITIVE DUST PLAN: Daily dust suppression log for January through July 2020 shows production started this season on March 15. Log lists Roadways, Storage Piles, Plant: Water Spray operating yes or no, and if not operating the reason why, raining, etc...

Log appears acceptable and Ottawa is using a combination of dust suppression options. 1) ProSweep - hired sweeper truck to address paved portions at entrance and road track out onto Whiteford Road. 2) Water Truck. 3) Rain/snow


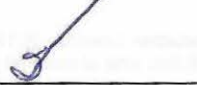
NOTE: One thing that was not listed is the Calcium Chloride applications, if any, to the yard.

During the inspection the primary crusher plant was not operating. The secondary crusher plant and wash plant were operating. I did not observe any visible emissions from plant process equipment or any fugitive dust issues with plant yard, roads or trackout.

The truck wheel wash was operating and being used. There was a lot of truck traffic ingress/egress during the inspection.

COMPLIANCE SUMMARY

AQD has determined the Stoneco, Ottawa Lake facility is in substantial compliance with their PTI No. 122-05D and the applicable state and federal regulations.

NAME  DATE 9/10/20 SUPERVISOR 

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

B492254577

FACILITY: STONECO INC, Ottawa Lake	SRN / ID: B4922
LOCATION: 7555 Whiteford Rd, OTTAWA LAKE	DISTRICT: Jackson
CITY: OTTAWA LAKE	COUNTY: MONROE
CONTACT: Michael Yeager, Environmental and Mining Technician	ACTIVITY DATE: 08/13/2020
STAFF: Diane Kavanaugh Vetort	COMPLIANCE STATUS: Compliance
SUBJECT: SM Opt-Out Facility; NSPS Subpart 000. Conducted FCE compliance inspection. PCE Records review under separate entry.	SOURCE CLASS: SM OPT OUT
RESOLVED COMPLAINTS:	

Full Compliance Evaluation (FCE) REPORT OF 8/13/20 COMPLIANCE INSPECTION. SEE SEPARATE MACES ENTRY FOR Partial Compliance Evaluation (PCE) RECORDKEEPING REVIEW / DISCUSSION.

B4922 Stoneco, Ottawa Lake, 7555 Whiteford Road, Ottawa Lake, Monroe County

Contacts:

Michael Yeager, Environmental and Mining Technician, Stoneco of Michigan A CRH Company, 734-770-1311, Michael.yeager@mipmc.com (MY)

Mark Parran, Plant Superintendent, MParran@mipmc.com (MP)

Sue Hanf, Environmental Engineer, 734-854-2265, shanf@mipmc.com (SH)

Purpose

On August 13, 2020, I conducted a complete scheduled inspection of the Stoneco, Ottawa Lake (Ottawa) facility at the above location. The purpose of the inspection is to determine the facility's compliance with the applicable federal and state air pollution control regulations, in particular the Michigan ACT 451, as amended, Natural Resources and Environmental Protection Act, Part 55, Air Pollution Control and the administrative rules, and the conditions of their Permit to Install No. 122-05D. This was a full compliance evaluation (FCE) scheduled, announced inspection of the equipment operating at the quarry owned and operated by Stoneco. Note a revision application is currently under review (-05E).

Due to the current COVID-19 Stay Home Stay Safe conditions in the state, EGLE is following appropriate safety protocols for field work including PPE and physical distancing. Stoneco also employs appropriate safety measures. Prior notification and arrangement was made with Mike Yeager, in order to conduct a brief physical inspection of two separate facilities, this one Ottawa, and Cadillac Asphalt (formerly Gerken) now owned by MIPMC.

We agreed to meet at the Cadillac Asphalt facility located in the Stoneco Denniston Quarry at approximately 9:15 AM, I contacted Michael Yeager (MY) by cell phone. This was the arrangement made prior to the inspections today, start at Cadillac Asphalt (now under the MIPMC umbrella) and follow with the Stoneco Ottawa Lake Quarry. This report documents only the Ottawa Lake FCE.

MY and I met outside the Ottawa office & quarry entrance and I completed a safety form. I followed him in my car to the various locations throughout the quarry. We made stops at two main locations to observe processes and site conditions. Mike Parran (MP) met us at the first stop and accompanied us until I left the quarry. I had a brief closing conference with MY in the parking lot at the Stoneco office before leaving the facility. An email was sent prior to the inspection to MY and SH requesting all required recordkeeping be submitted electronically. A detailed Records Review is under the separate MACES PCE.

Background

Stoneco owns and operates many quarries around the State of Michigan. This quarry is used to mine limestone, much of which is used by their clients in the production of concrete pavement.

Operations include process equipment for crushing stone to smaller aggregate (i.e. crushers, screens, conveyors, etc.), truck and heavy vehicle traffic, storage piles, and blasting. The site includes two crushing plants; primary and secondary, and a wash plant. During the inspection, only equipment associated with the secondary crusher and wash plant were operating.

This facility is a Synthetic Minor source of Particulate Matter (PM) which is why their PTI identifies opacity limits, design requirements, and operational restrictions in order to stay below thresholds of a major source. In order to demonstrate compliance, this facility submits records annually to the Michigan Air Emission Reporting System (MAERS).

Additionally, this facility is subject to the New Source Performance Standard (NSPS) in 40 CFR Part 60, Subpart 000 for Nonmetallic Mineral Processing Plants. Appropriate NSPS required testing is conducted as applicable and the PTI is updated as needed.

MP informed me they operate about 22 hours per day, essentially 2 shifts about 6-8 hours. MY said they are currently involved in zoning for expansion that will likely give them approximately 25 more years of operation.

Compliance Evaluation

EUTRUCKTRAFFIC

This is the emission unit (EU) for delivery truck traffic and loader vehicles associated with processing equipment, material handling, and loading/unloading activities. Visible emissions (VE) are limited to 5% opacity from these types of vehicles. In order to meet this condition unpaved roadways are treated with a chloride solution and watered as needed. VEs exceeding 5% were not observed during the inspection.

The facility is limited to the equivalent of 80,000 – 50 ton transport trucks over a 12-month rolling time period. Records Review report discusses compliance with this limit. All records are attached to the reports to file. I observed the site was fairly busy with consistent traffic in and out. I also observed the wheel wash system in place that is required under this section of the permit. MY also stated that they contract services through Progressive Sweeper to have the paved areas swept 3-4 times per week.

EUPROCESS

This is the EU that covers process equipment including crushing, screening, and conveyors, which are used to reduce materials to smaller sizes. They operate two crushing plants, primary and secondary, of which only the secondary was running during the inspection. VEs are controlled by water sprays attached to the equipment, and were running on the secondary plant while operating. The standards set forth in NSPS OOO appear to be met as they apply to this facility; in particular the water controls are eliminating VEs from the process, or the material has sufficient moisture.

Stoneco is limited to 4,000,000 tons of material on a 12-month rolling time period at this site. Records Review report discusses compliance with this limit. All records are attached to the reports to file. The facility does not process any materials containing asbestos.

EUSTORAGE

This is the EU for storage piles on site, which include the various sized aggregate piles. The initial product is dampened from spray bars as it goes through processing, but is maintained with a water spray as needed before loaded out. The limit of 5% opacity as written in this condition was being met during the inspection. The facility appears to be following the fugitive dust plan in Appendix B of the permit as it pertains to storage piles.

EUBLASTING

This is the EU for the use of explosives to loosen limestone for excavation and processing. Records Review report discusses compliance with this limit. All records are attached to the reports to file. Stoneco does not perform more than 1 blast per day nor over 20,000 square feet at a time. MY stated that the blasts are conducted within 100 feet of the property. During the inspection I observed the current blast area on a high shelf to the N, NW of the property. No blasting was occurring during the inspection.

FGFACILITY

This is the flexible group (FG) for all process equipment source-wide. The only special conditions of this section are that the entire working part of the quarry is surrounded by either fence or berm and that process equipment not be operated within 300 feet of the property line. I asked MY and MP about this condition and was informed the site is not fenced, but does have berms. All the process equipment is within the quarry walls. These conditions appear to be being met.

Summary


The first location MY, MP and I drove to was high on a hill with a good view of the blasting area and for inspection of the Primary Crusher location (not operating). We parked here and got out to observe both. No blasting was occurring to day. I did see two drill rigs up on the high shelf and a pickup truck / person in the area.

Next, we walked to the primary plant (not running) control room area to observe the belt scale and computer system. We left this area and drove down to the base of the quarry to observe the storage piles (no VEs), secondary plant (running, no VEs), wash plant (running, no VEs) and wheel wash (in place and being used). We walked to inspect the operating Cone crusher #6 and observed some of the equipment labels required by the permit. The site was very busy with numerous trucks observed entering and leaving the facility. I observed they appeared to be following speed limit signs and using the wheel wash before exiting the facility yard. I did not observe significant fugitive emissions from the yard, paved areas or track out onto the main road. I observed the Water Truck on-site operating.

Sue Hanf provided me with the requested records via emails on 8/17/2020 and 8/18/2020.

Compliance Determination

After an on-site inspection and review of recordkeeping, and combined with the 2020 MAERS audit, I have determined that this facility is in substantial compliance with PTI 122-05D.

NAME  DATE 9/10/20 SUPERVISOR 