# MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

May 25, 2023

PERMIT TO INSTALL 122-05F

ISSUED TO Stoneco of Michigan, Ottawa Lake Quarry

> LOCATED AT 7555 Whiteford Road Ottawa Lake, Michigan 49267

> > IN THE COUNTY OF

Monroe

# STATE REGISTRATION NUMBER B4922

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

# May 5, 2023

DATE PERMIT TO INSTALL APPROVED: May 25, 2023	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

# PERMIT TO INSTALL

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# **COMMON ACRONYMS**

AQD BACT CAA CAM CEMS CFR COMS Department/department/EGLE EU FG GACS GC GHGs HVLP ID IRSL ITSL LAER MACT MAERS MAP MSDS NA NAAQS NESHAP NSPS NSR PS PSD PTE PTI RACT ROP SC SCR SCR SNCR SRN TBD TEQ USEPA/EPA VE	Air Quality Division Best Available Control Technology Clean Air Act Compliance Assurance Monitoring Continuous Emission Monitoring System Code of Federal Regulations Continuous Opacity Monitoring System Michigan Department of Environment, Great Lakes, and Energy Emission Unit Flexible Group Gallons of Applied Coating Solids General Condition Greenhouse Gases High Volume Low Pressure* Identification Initial Risk Screening Level Lowest Achievable Emission Rate Maximum Achievable Control Technology Michigan Air Emissions Reporting System Malfunction Abatement Plan Material Safety Data Sheet Not Applicable National Ambient Air Quality Standards National Emission Standard for Hazardous Air Pollutants New Source Performance Standards New Source Review Performance Specification Prevention of Significant Deterioration Permit to Install Reasonable Available Control Technology Renewable Operating Permit Special Condition Selective Catalytic Reduction Selective Catalytic Reduction State Registration Number To Be Determined Toxicity Equivalence Quotient United States Environmental Protection Agency Visible Emissions
VE	VISIBLE EMISSIONS

# POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU ℃ CO	Actual cubic feet per minute British Thermal Unit Degrees Celsius Carbon Monoxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr HP	Hour
HP H2S	Horsepower
H2S kW	Hydrogen Sulfide Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NOx	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO <sub>2</sub>	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
hà	Microgram
μm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

## **GENERAL CONDITIONS**

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

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- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). (R 336.1301)
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). (**R 336.1370**)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

## **EMISSION UNIT SPECIAL CONDITIONS**

## EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date
EUPROCESS	A combination of process equipment (screens, crushers, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transporting of material to storage areas. Control methods include equipment enclosures or enclosed within a building, water sprays, drop chutes and/or pant legs for transfer points.	March 9, 2009 / April 13, 2011 / October 10, 2013 / April 15, 2015, May 25, 2023
EUTRUCKTRAFFIC	Truck traffic for delivery of material products to customers; truck traffic from quarry pit to processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions from the quarry pit to the process area.	April 1, 2006
EUSTORAGE	Open area stock piles of various material sizes and product types. Water spray of material products are used when necessary for material storage piles.	April 1, 2006
EUBLASTING	Loosening of limestone material from quarry by the use of explosives.	April 1, 2006, May 25, 2023

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

# EUPROCESS EMISSION UNIT CONDITIONS

## DESCRIPTION

A combination of process equipment (screens, crushers, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transporting of material to storage areas. Control methods include equipment enclosures or enclosed within a building, water sprays, drop chutes and/or pant legs for transfer points.

#### Flexible Group ID: NA.

## POLLUTION CONTROL EQUIPMENT

Control methods include equipment enclosures or enclosed within a building, water sprays, drop chutes and/or pant legs for transfer points.

#### I. EMISSION LIMIT(S)

 Visible emissions from the drop point and transfer point portions of EUPROCESS shall not exceed a sixminute average of 10 percent opacity. (R 336.1301, R 336.1331, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 60.670)

## II. MATERIAL LIMIT(S)

- The permittee shall not process any asbestos tailing or waste materials containing asbestos in EUPROCESS pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61, Subpart M. (40 CFR Part 61 Subpart M)
- The permittee shall not process more than 21,600 tons of material per day nor 4,000,000 tons of material through EUPROCESS per 12-month rolling time period as determined at the end of each calendar month. (R 336.1205, 40 CFR 52.21(c) & (d))

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate any portion of EUPROCESS unless each portion of EUPROCESS meets the specific opacity limit listed in Appendix A of this permit. (R 336.1301, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), 40 CFR 60.670)
- 2. The permittee shall not operate EUPROCESS unless the nuisance minimization plan for fugitive dust for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained. **(R 336.1371)**
- The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and OOO, as they apply to EUPROCESS. (40 CFR Part 60 Subparts A & OOO)

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate any portion of EUPROCESS unless the equipment's specified control device is installed, maintained, and operated in a satisfactory manner as listed in Appendix A. (R 336.1910, 40 CFR 52.21(c) & (d))
- 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. **(40 CFR 52.21(c) & (d))**

# V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

 Within 60 days after achieving the maximum production rate, but not later than 180 days after commencement of trial operation, the permittee shall evaluate visible emissions from EUPROCESS, as required by federal Standards of Performance for New Stationary Sources, at owner's expense, in accordance 40 CFR Part 60 Subparts A and OOO. Visible emission observation procedures must have prior approval by the AQD Technical Programs Unit and District Office. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 45 days following the last date of the test. (R 336.1301, 40 CFR Part 60 Subparts A & OOO)

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(40 CFR 52.21 (c) & (d))**
- The permittee shall keep, in a satisfactory manner, daily and monthly records of the amount of material processed through EUPROCESS. Further, the permittee shall calculate on a monthly basis, the yearly throughput rate based upon the most recent 12-month rolling time period. The permittee shall keep records of the amount of material processed on file and make them available to the Department upon request. (40 CFR 52.21 (c) & (d))

# VII. <u>REPORTING</u>

- Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUPROCESS. (R 336.1201(7)(a))
- 2. The permittee shall provide written notification of construction and operation to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. The permittee shall submit this notification to the AQD District Supervisor within the time frames specified in 40 CFR 60.7. (40 CFR 60.7)

# VIII. STACK/VENT RESTRICTION(S)

NA

## IX. OTHER REQUIREMENT(S)

1. Within 45 days of issuance of this permit, the permittee shall label all equipment using the company ID Numbers in Appendix A, according to a method acceptable to the AQD District Supervisor. Labels shall be in a conspicuous location on the equipment. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)** 

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# EUTRUCKTRAFFIC EMISSION UNIT CONDITIONS

## DESCRIPTION

Truck traffic for delivery of material products to customers; truck traffic from unloading area to processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions

#### Flexible Group ID: NA.

#### POLLUTION CONTROL EQUIPMENT

NA

## I. EMISSION LIMIT(S)

1. Visible emissions from all wheel loaders and all truck traffic, operated in conjunction with EUTRUCKTRAFFIC, shall not exceed five (5) percent opacity. Compliance shall be demonstrated using Test Method 9D as defined in Section 324.5525(j) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). **(R 336.1301, 40 CFR 52.21(c) & (d))** 

## II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. EUTRUCKTRAFFIC shall not exceed a maximum equivalent of 80,000 50-ton transport trucks based upon a 12-month rolling time period. (40 CFR 52.21(c) and (d))
- 2. The permittee shall not operate EUTRUCKTRAFFIC unless the nuisance minimization plan for fugitive dust for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained. **(R 336.1371, R 336.1372, Act 451 324.5524)**
- 3. The permittee shall install and maintain paved roads (full width) from Whiteford Road (egress and ingress) through the truck scales and the wheel wash. (40 CFR 52.21 (c) & (d))

## IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, maintain, and operate properly a wheel wash system. (40 CFR 52.21(c) and (d))

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (40 CFR 52.21 (c) & (d))
- 2. The permittee shall keep records of the following information for EUTRUCKTRAFFIC:
  - a) The daily amount of material shipped off site.

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- b) Monthly calculations to determine the equivalent number of 50-ton transport trucks entering and leaving the facility based on that month's daily record.
- c) Monthly calculations to determine the equivalent number of 50-ton transport trucks entering and leaving the facility on a 12-month rolling basis.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. All records shall be kept on file and made available to the Department upon request. **(40 CFR 52.21 (c) & (d))** 

## VII. <u>REPORTING</u>

NA

## VIII. STACK/VENT RESTRICTION(S)

NA

## IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# EUSTORAGE EMISSION UNIT CONDITIONS

## DESCRIPTION

Open area stock piles of various material sizes and product types.

#### Flexible Group ID: NA.

#### POLLUTION CONTROL EQUIPMENT

Water spray of material products are used when necessary for material storage piles

#### I. EMISSION LIMIT(S)

1. Visible emissions from each of the material storage piles maintained under EUSTORAGE, shall not exceed five (5) percent opacity. Compliance shall be demonstrated using Test Method 9D as defined in Section 324.5525(j) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). (R 336.1301, 40 CFR 52.21(c) & (d))

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUSTORAGE unless the nuisance minimization plan for fugitive dust for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained. (R 336.1371, R 336.1372, Act 451 324.5524)

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VII. <u>REPORTING</u>

NA

#### VIII. STACK/VENT RESTRICTION(S)

NA

#### IX. OTHER REQUIREMENT(S)

NA

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#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# EUBLASTING EMISSION UNIT CONDITIONS

## **DESCRIPTION**

Loosening of limestone material from quarry by the use of explosives.

#### Flexible Group ID: NA

#### POLLUTION CONTROL EQUIPMENT

NA

## I. EMISSION LIMIT(S)

NA

## II. MATERIAL LIMIT(S)

NA

## III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not perform more than a maximum of one blast per calendar day, except as necessary for safety reasons. The maximum surface area of any single blast shall not exceed 40,000 square feet. (40 CFR 52.21 (c) & (d))
- 2. The permittee shall not blast or perform excavation (excluding earthen berms) within 100 feet of any property line. (40 CFR 52.21 (c) & (d))

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall keep a monthly record of the number of blasts performed, the date and the time they took place and the surface area of each blast. The records shall be kept on file and made available to the Department upon request. (40 CFR 52.21 (c) & (d))

#### VII. <u>REPORTING</u>

NA

#### VIII. STACK/VENT RESTRICTION(S)

NA

# IX. OTHER REQUIREMENT(S)

NA

**Footnotes:** <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# **FGFACILITY CONDITIONS**

## DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

## POLLUTION CONTROL EQUIPMENT

NA

## I. EMISSION LIMIT(S)

NA

## II. MATERIAL LIMIT(S)

NA

## III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The entire working quarry will be surrounded by either berms or fences. (40 CFR 52.21 (c) & (d))
- 2. The permittee shall not operate any process equipment, not including conveyors and blasting equipment, within 300 feet of any property line. (40 CFR 52.21 (c) & (d))

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### **VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VII. <u>REPORTING</u>

NA

## VIII. STACK/VENT RESTRICTION(S)

NA

#### IX. OTHER REQUIREMENT(S)

NA

Footnotes: <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# **APPENDIX A**

Equipment Description	ID Number	EQ Number	Opacity Limit (Percent)	Control Device
Grizzly Feeder (60" x 24')	В	45.0043	5	Water Spray
Primary Crusher (3858 ABC)	С	41.0067	5	Water Spray
Conveyor (60" x 50')	B1	47.0418	5	Water Spray at primary
Conveyor (48" x 202')	B2	47.0419	5	Water Spray at primary
Screen 1 (8" x 20')	D	43.0105NEW	5	Covered
Conveyor (48" x 165')	B3B	47.0532	5	Water Spray at primary and key transfer points
Cone Crusher 2 (57SBS ABC/FMC)	К	41.0068	5	Water Spray
Conveyor (48" x 145')	B14A	47.0533	5	Water Spray at primary and key transfer points
Conveyor (48" x 115')	B13	47.0427	5	Water Spray
Conveyor (8" x 3')	B4	47.0421	5	Water Spray
Stacker (8" x 3')	B3	47.0420	5	Water Spray
At Conveyor (36" x 27')	B5	47.0422	5	Water spray at key transfer points
Conveyor (30" x 350')	B11	47.0426	5	Water spray at key transfer points
Stacker (30" x 150')	B12	47.0461	5	Water spray at key transfer points
Pep Screen (6" x 18')	I	47.0473	5	Covered
Stacker (30" x 100')	B10	47.0447	5	Water spray at key transfer points
Conveyor (30" x 110')	В9	47.0425	5	Water spray at key transfer points
Feed Hopper	FH	FH	5	Water Spray
Feed Hopper Conveyor	FH/conv		5	Water Spray
Conveyor (30" x 18')	B6		5	Water Spray
Conveyor (30" x 24')	B7A	47.0423	5	Water spray at key transfer points
Conveyor (30" x 733')	B40	47.0466	5	Water Spray
Conveyor (30" x 137')	B7B	47.0424	5	Water spray at key transfer points
Conveyor (48" x 314')	B14	47.0428	5	Water spray at key transfer points
Feeder (VS F450C)	T1	54.0040	5	Enclosed
Feeder (VS F450C)	T1	54.0041NEW	5	Enclosed
Feeder (VS F450C)	T1	54.0042	5	Enclosed
Conveyor (48" x 206')	B15	47.0429	5	Water spray at key transfer points

Equipment Description	ID Number	EQ Number	Opacity Limit (Percent)	Control Device
Screen Secondary (8" x 24')	N	43.0106	5	Covered
Conveyor (48" x 127')	B16	47.0430	5	Water spray at key transfer points
Crusher 3 (Sandvik 600)	Q	41.0069	5	Water Spray
Conveyor (30" x 55')	B17	47.0431	5	Water spray at key transfer points
Conveyor (30" x 25')	B18	47.0432	5	Water spray at key transfer points
Conveyor (30" x 100')	B19A	47.0433A	5	Water spray at key transfer points
Conveyor (30" x 140')	B19B	47.0433	5	Water spray at key transfer points
Conveyor (30" x 115')	B20	47.0449	5	Water spray at key transfer points
Conveyor (48" x 270')	B21A	47.0434	5	Water spray at key transfer points
Conveyor (42" x 268')	B21B	47.0435	5	Water spray at key transfer points
Screen SC Tertiary (8" x 24')	SC	43.0137	5	Covered
Screen SA Tertiary (8" x 24')	SA	43.0138	5	Covered
Conveyor (30" x 35')	B29	47.0440	5	Water spray at key transfer points
Conveyor (30" x 108')	B30	47.0441	5	Water spray at key transfer points
Pep Screen (6" x 18')	R	47.0472	5	Covered
Conveyor (30" x 390')	B33	47.0443	5	Water spray at key transfer points
Conveyor (30" x 115')	B34	47.0454	5	Water spray at key transfer points
Conveyor (30" x 335')	B35, SCO	47.0444	5	Water spray at key transfer points
Conveyor (30" x 50')	B31	47.0442	5	Water spray at key transfer points
Conveyor (30" x 115')	B32	47.0453	5	Water spray at key transfer points
Conveyor (30" x 85')	B22	47.0436	5	Water spray at key transfer points
Conveyor (36" x 66')	B23	47.0437	5	Water Spray at key transfer points
Conveyor (30" x 95')	B23A	47.0437A	5	Wash Plant
Wash Screen 3 (Telsmith 5x14)	WS3	43.0140	5	Wash Plant

Equipment Description	ID Number	EQ Number	Opacity Limit (Percent)	Control Device
Conveyor (36" x 150')	B24	47.0450	5	Wash Plant
Conveyor (30" x 130')	B25	47.0438	5	Water spray at key transfer points
Conveyor (30" x 115')	B26, (CUB)	47.0451	5	Water spray at key transfer points
Conveyor (30" x 90')	B27	47.0439	5	Water Spray at key transfer points
Conveyor (30" x 71')	B27A	47.0439A	5	Water Spray at key transfer points
Conveyor (30" x 40')	B27B	47.0439B	5	Wash Plant
Wash Screen 2 (Conweld 5 x 14)	WS2	47.0139NEW	5	Wash Plant
Conveyor (30" x 115')	B28	47.0452	5	Wash Plant
Conveyor (36" x 55')	B37	47.0445	5	Water spray at key transfer points
Conveyor (30" x 490')	B38	47.0446	5	Water spray at key transfer points
Conveyor (30" x 275')	B39	47.0034	5	Water spray at key transfer points
Wash Screen (6" x 16')	WS1	47.0165	5	Water Spray
Screw (36" x 25')	Screw	42.0312	5	Water Spray
Homemade Conveyor (90')	B41, SS	47.0012	5	Water/Wash plant
Homemade Conveyor (80')	B42, OVC	47.0509	5	Water/Wash plant
Conveyor (60')	B43, OVS	47.0448	5	Water/Wash plant
Homemade Conveyor (70')	B44, 9CO	47.0369	5	Water/Wash plant
Homemade Conveyor (80')	B45	B45	5	Water/Wash plant
Homemade Conveyor (100')	B46, NCO	47.0071	5	Water/Wash plant
Homemade Conveyor (80')	B47, NS	47.0008	5	Water/Wash plant
Feed Hopper	FH	B39, FH	5	Water Spray
Conveyor	B50	B50	5	Water Spray
Hopper (4 Bin Homemade)	BIN	46.0156	5	Moisture in materials
Conveyor	B54	B54	5	Moisture in materials
Sand Hopper	SH	46.0161	5	Moisture in materials
Wash Screen (Conweld 5" x 14')	CRD	43.0161	5	Water Spray

#### **APPENDIX B**

#### **Nuisance Minimization Plan for Fugitive Dust**

#### I. Site Roadways / Plant Yard

- A. The dust on the site roadways and the plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits. A record of all watering/dust suppressant applications shall be kept on file and be made available to the AQD upon request.
- B. All paved roadways and the plant yards shall be swept as needed between applications.
- C. Any material spillage on roads shall be cleaned up immediately.

#### II. Plant

The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve. The transfer point from the re-circulating belt to the feed belt shall be equipped with an enclosed chute.

#### III. Storage Piles

- A. Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.
- B. Stockpiles shall be watered on an as needed basis in order to meet the opacity limit of 5 percent. Equipment to apply water or dust suppressant shall be available at the site or on call for use at the site within a given operating day. A record of all watering/dust suppressant applications shall be kept on file and be made available to the AQD upon request.

#### IV. Truck Traffic

On-site vehicles shall be loaded to prevent their contents from dropping, leaking, blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within 6 inches of the top of any side board, side panel or tailgate. Otherwise, the truck shall be tarped.

#### V. AQD/EGLE Inspection

The provisions and procedures of this plan are subject to adjustment by written notification from the AQD if, following an inspection, the AQD finds the fugitive dust requirements and/or permitted emission limits are not being met.