

**PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AIR PROGRAM**

**33 N. Stone Avenue, Suite 700 • Tucson, AZ 85701 • Phone: (520) 724-7400**

**AIR QUALITY PERMIT**

(As required by Title 17.12, Article II, Pima County Code)

**ISSUED TO**

**CALMAT CO.**

**DBA**

**VULCAN MATERIALS COMPANY**

**(INA READY MIX PLANT)**

**5400 WEST MASSINGALE ROAD**

**TUCSON, AZ 85743**

*This air quality permit does not relieve applicant of responsibility for meeting all air pollution regulations*

**THIS PERMIT ISSUED IS SUBJECT TO  
THE SPECIFIC CONDITIONS IDENTIFIED IN THIS PERMIT**

**PERMIT NUMBER 6015**

**PERMIT CLASS II**

**ISSUED: February 25, 2016**

**EXPIRES: February 24, 2021**



SIGNATURE

**Rupesh Patel, Air Permit Manager, PDEQ**

TITLE

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## PERMIT SUMMARY

This permit is the first renewal of the five year, individual air quality permit issued to Calmat Company DBA Vulcan Materials Company (Vulcan), the Permittee, for their non-metallic mineral mining/processing and ready mix concrete operation at the Ina Facility located at 5400 W. Massingale Road in Tucson, Arizona. The Permittee is a synthetic minor source of PM and PM<sub>10</sub>, as well as a true minor source of all other criteria pollutants and Hazardous Air Pollutants (HAP).

The facility is composed of four (4) main plants:

- Aggregate Plant
- Wash Plant
- Concrete Batch Plant A
- Concrete Batch Plant B

The Aggregate Plant produces lime-treated ABC for sale and coarse and fine aggregate (sand) for use in the Concrete Batch Plants. The Wash Plant cleans the material produced by the Aggregate Plant for use in the Concrete Batch Plants. The Concrete Batch Plants are Truck Mix operations that produce concrete for delivery to customers.

The Aggregate Plant is subject to NSPS 40 CFR 60 Subpart OOO: Standards of Performance for Non-Metallic Mineral Processing Plants. Applicable equipment prior to material saturation in the Wash Plant is also subject to this NSPS requirement. The Concrete Batch Plants are not subject to NSPS because these plants are stand-alone operations without crushers or grinding mills.

Vulcan's Ina Facility operates under the following Standard Industrial Classification (SIC) codes: The facilities for the production of the sand, gravel and construction aggregate are under SIC code 1442, "Construction Sand and Gravel." The facilities for the production of ready-mix concrete are under SIC code 3273, "Ready-Mix Concrete."

The Permittee declares an annual operational limit of 1,500,000 tons of aggregate production, and 1,410,000 tons (750,000 yd<sup>3</sup>) (Tonnage based on 3,760 lbs/yd as reported per the 2008 permit renewal application) of total concrete production.

The following emission rates are for reference purposes only and are not intended to be enforced by direct measurement unless otherwise noted in the Specific Conditions of this permit.

| Source  | Emissions (tons/yr) |      |                 |                 |     |            |        |
|---|---------------------|------|-----------------|-----------------|-----|------------|--------|
|   | PM <sub>10</sub>    | CO   | NO <sub>x</sub> | SO <sub>x</sub> | VOC | Total HAPs | Metals |
| Potential Emissions<br>Aggregate Production at 1,500,000 tons/yr<br>&<br>Concrete Batch Plants at 1,410,000 tons/yr | 25                  | 0.07 | 0.08            | 0               | 0   | 0.01       | <0.1   |

**SPECIFIC CONDITIONS**

[References are to Title 17 of the Pima County Code [PCC] unless otherwise noted]

**I. Applicability**

The facility covered by this permit constitutes a **Class II; Synthetic Minor Stationary Source**. The Specific Conditions address the following categories of equipment:

A. NSPS Affected Facilities:

[Aggregate Plant (and portion of Wash Plant): crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins and enclosed truck or railcar loading station that commenced construction, reconstruction or modification after **August 31, 1983**.]

B. Non NSPS Affected Facilities:

[Wash Plant and Concrete Batch Plants]

C. Facility-Wide Operations

**II. Emission Limits & Standards**

[PCC 17.12.185.A.2]

A. NSPS Affected Facilities

**[Federally Enforceable Conditions]**

Aggregate Plant

The provisions of this section are applicable to the NSPS affected facilities identified in Tables I, II & III of Attachment 2.

1. Particulate Matter & Opacity Standards

a. Within 60 days after achieving the maximum production rate, at which the affected facility will be operated, but not later than 180 days after initial startup, the Permittee shall not cause to be discharged into the atmosphere any fugitive emissions from affected facilities in excess of the following limits: [40 CFR 60.672(b)]

i. For affected facilities that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008;

(A) Greater than 15 percent opacity from any crusher;

(B) Greater than 10 percent opacity from affected facilities other than crushers.

ii. For affected facilities that commenced construction, modification, or reconstruction after April 22, 2008;

(A) Greater than 12 percent opacity from crushers at which a capture system is not used, and

(B) Greater than 7 percent opacity from affected facilities other than crushers.

b. The opacity standards in this section shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 60.11(c)]

c. Movable vehicle (trucks, front end loaders, skip hoists, railcars, etc.) dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section. [40 CFR 60.672(d)]

2. Operation and Maintenance Requirement

At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

[Table 1 to Subpart 000 & 40 CFR 60.11(d) & PCC 17.16.020.A]

**[Material Permit Condition]**

3. Concealment of Emissions

The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

4. Facility Changes

Before installing additional units or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.245, PCC 17.12.255 or PCC 17.12.260.

B. Non-NSPS Facilities

1. Wash Plant

The provisions of this section are applicable to the Non-NSPS equipment identified in Table III of Attachment 2.

a. Process Weight Determination Requirement

The Permittee shall install, calibrate, maintain, and operate monitoring devices which can be used to determine daily the process weight of gravel or crushed stone produced. The weighing devices shall have an accuracy of  $\pm$  five percent over their operating range.

[PCC 17.16.370.F]

**[Material Permit Condition]**

b. Fugitive Emissions Standards

Fugitive emissions from gravel and crushed stone processing plants shall be controlled in accordance with the facility-wide Non-NSPS requirements in II.B.3.b of the Specific Conditions.

[PCC 17.16.370.E]

c. Facility Changes

Before installing additional units or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.245, PCC 17.12.255 or PCC 17.12.260.

2. Concrete Batch Plants

The provisions of this section are applicable to the Non-NSPS equipment identified in Tables IV and V of Attachment 2.

- a. The Permittee shall follow the facility-wide Non-NSPS requirements in II.B.3 of the Specific Conditions. [PCC 17.16.380]
- b. Facility Changes

Before installing additional units or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.245, PCC 17.12.255 or PCC 17.12.260.

3. Facility-wide Non-NSPS Requirements

a. Pollution Control Requirement

- i. The Permittee shall install and operate baghouses and dust collectors on all pneumatically-loaded silos and loadout operations according to manufacturers' recommendations and specifications. If there are no manufacturers' recommendations and specifications, the Permittee shall submit an Operations and Maintenance Plan for approval prior to issuance of the permit. [PCC 17.12.185.A.2]

**[Material Permit Condition]**

- ii. The Permittee shall not cause, suffer, allow, or permit crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust without taking reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods to prevent excessive amounts of particulate matter from becoming airborne. [PCC 17.16.100.A]

**[Material Permit Condition]**

- iii. The facility shall utilize spray bar pollution controls in accordance with "EPA Control of Air Emissions From Process Operations In The Rock Crushing Industry" (EPA 340/1-79-002), "Wet Suppression System" (pages 15-34), amended as of January, 1979 (and no future amendments or editions), as incorporated herein by reference and on file with the Office of the Secretary of State, with placement of spray bars and nozzles as required by the Control Officer to minimize air pollution. [PCC 17.16.370.D]

**[Material Permit Condition]**

b. Fugitive Emissions Standards

- i. The Permittee is responsible for controlling windblown dust, dust from haul roads, and dust emitted from land clearing, earthmoving, demolition, trenching, blasting, road construction, mining, racing event, and other activities, as applicable: [PCC 17.16.060.A]
- ii. Until the area becomes permanently stabilized by paving, landscaping or otherwise, dust emissions shall be controlled by applying adequate amounts of water, chemical stabilizer, or other effective dust suppressant. [PCC 17.16.060.A.1]
- iii. The Permittee shall not leave land in such a state that fugitive dust emissions (including windblown dust or dust caused by vehicular traffic on the area) would violate PCC 17.16.050. [PCC 17.16.060.A.2]

- iv. Dust emissions from the transportation of materials shall be effectively controlled by covering stock loads in open-bodied trucks, limiting vehicular speeds, or other equivalently effective controls. [PCC 17.16.100.C]

- v. The Permittee shall not cause, suffer, allow, or permit organic or inorganic dust producing material to be stacked, piled or otherwise stored without taking reasonable precautions such as chemical stabilization, wetting, or covering to prevent excessive amounts of particulate matter from becoming airborne. [PCC 17.16.110.A]

c. Opacity Standard

Except as otherwise specified in the Specific Conditions, the opacity of all plumes and effluents from all point and non-point sources shall not exceed 20% as determined by EPA Reference Method 9, Appendix A in 40 CFR 60. [PCC 17.16.050.B & PCC 17.16.130.B.1]

d. Concealment of Emissions

No person shall construct, install, erect, use, replace, modify, or operate an emission source so as to conceal an emission which would otherwise be a violation of a control standard established herein. Concealment shall include: [PCC 17.20.040]

- i. The use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere;
- ii. Operating in a piecemeal fashion to avoid compliance with a standard that would otherwise apply to the source on the basis of its size; and
- iii. Operating in a manner, under conditions, or during such times that emissions cannot be observed.

e. Local rules and standards - applicability of more than one standard

If more than one emission limit or emission standard is applicable to the same source, the more stringent standard or emission limit shall apply. [PCC 17.16.010.B]

f. Facility Changes

Before installing additional units or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.245, PCC 17.12.255 or PCC 17.12.260.

C. Facility-Wide Operations

The provisions of this section are applicable to all other permit operations or activities not specifically identified in II.A and II.B of the Specific Conditions.

1. Operational Limitation

Total source production shall not exceed 1,500,000 tons of final aggregate product and 1,410,000 tons of batched concrete in any twelve-month rolling total. [PCC 17.12.185.A.2 & PCC 17.12.190.B]  
**[Material Permit Condition]**

2. Opacity Standard

Except as provided in this permit, the Permittee shall not cause or permit the effluent from a single, multiple, or fugitive emission point to have an average optical density that exceeds 20 percent as determined by EPA Reference Method 9, Appendix A in 40 CFR 60.

[PCC 17.16.040 & Table 17.16.040]

3. Visibility Limiting Standard

- a. The Permittee shall not cause, suffer, allow or permit operations or activities likely to result in excessive amounts of airborne dust without taking reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne. [PCC 17.16.050.A]
- b. The Permittee shall not cause, suffer, allow, or permit diffusion of visible emissions, including fugitive dust, beyond the property boundary line within which the emissions become airborne, without taking reasonably necessary and feasible precautions to control generation of airborne particulate matter. Sources may be required to cease temporarily the activity of operation which is causing or contributing to the emissions until reasonably necessary and feasible precautions are taken. [PCC 17.16.050.D]
  - i. The provisions of II.C of the Specific Conditions do not apply when naturally induced wind speed exceed (25) miles per hour as estimated by a certified visible emissions evaluator using the Beaufort Scale of Wind-Speed equivalents, or as recorded by a U.S. weather bureau station or a U.S. government military installation. This exception does not apply if control measures have not been taken or were not commensurate with the size or scope of the emission source. [PCC 17.16.050.D.2]
  - ii. This subsection shall not apply to undisturbed land. [PCC 17.16.050.D.3]

4. Odor Limiting Standard

The Permittee shall not emit gaseous or odorous materials from equipment, operations, or premises under his control in such quantities or concentrations as to cause air pollution. [PCC 17.16.030]

5. Facility Changes

Before installing additional units or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.245, PCC 17.12.255 or PCC 17.12.260.

**III. Monitoring Requirements**

[PCC 17.12.185.A.3]

A. NSPS Affected Facilities (Aggregate Plant Only)

1. Particulate Matter & Opacity

To assure compliance with the Opacity Standards in II.A.1.a of the Specific Conditions, the Permittee shall observe fugitive sources at least once a day while the plant is operating. If the observer sees a plume that, on an instantaneous basis, appears to exceed the applicable opacity standard, or the emissions are crossing property boundaries, then the Permittee shall, if practical, conduct an EPA Method 9. If the results exceed the applicable opacity, this shall be recorded and reported as an excess emission and a permit deviation. [PCC 17.12.185.A.3]

B. Non-NSPS Affected Facilities (Wash Plant Only)

1. Process Weight Determination

The specified procedure to determine the daily process weight rate of the material being processed shall not be required unless the Control Officer has reason to believe a violation of the standard in II.B.1.a of the Specific Conditions has been committed. The Permittee may use other established methods to determine process weight rates when required.

2. Facility-Wide Non-NSPS Requirements

a. Baghouse Inspection

The Permittee shall demonstrate compliance with II.B.3.a.i by examining the condition of the bags and baghouse/dust collector each time that maintenance is performed according to the manufacturers' recommendations and specifications, or according to the submitted Operation and Maintenance Plan. Baghouse/dust collector filters shall be checked to ensure they are maintained according to the recommendations and specifications. Observational results of these checks shall be recorded by the Permittee in a log.

b. Opacity Check

In order to demonstrate compliance with the opacity limitation in II.B.3.c of this permit, the Permittee shall conduct a visible emissions check on all point and non point sources at least daily when the concrete batch plant is in operation. If the observer sees a plume that, on an instantaneous basis, appears to exceed the applicable opacity standard, or the emissions are crossing property boundaries, then the Permittee shall, if practical, conduct an EPA Method 9. If the results exceed the applicable opacity, this shall be recorded and reported as an excess emission and a permit deviation. For the purposes of this permit, a visible emission check is verification that excessive emissions are not present during the operation of the concrete batch plant.

C. Facility-Wide Operations

1. Operational Limitations

Compliance with II.C.1 shall be demonstrated by the Permittee keeping daily production records used to produce monthly production totals. A rolling, twelve-month total of production tonnage will be created and updated monthly within 14 calendar days of the end of the month.

2. Opacity Check

Once per day during operations, the Permittee shall check all operations for evidence of abnormal emissions. The Permittee shall record the date and time of such a check, the name of the inspector, and the results of the inspection indicating if abnormal emissions were observed and, if so, the type of corrective action taken.

**IV. Recordkeeping Requirements**

[PCC 17.12.185.A.4]

A. NSPS Affected Facilities (Aggregate Plant Only)

The Permittee shall record all monitoring results including EPA reference Method 9 observations, excess emissions and permit deviations. Records of such checks shall include, at a minimum:

1. The date and time of the check;
2. The name of the person conducting the check;
3. The particular piece of equipment or area being observed; and
4. The results of the check to include whether excessive emissions were observed. If excessive emissions were observed, the record shall include corrective action taken and the results of any EPA Method 9 opacity tests conducted.

B. Non-NSPS Affected Facilities

1. Wash Plant

a. Calibration and Maintenance

When required, the Permittee shall maintain all calibration and maintenance records of the monitoring devices used to determine compliance with II.B.1.a of the Specific Conditions.

b. Production Rates

When required, the owner or operator of any affected facility shall maintain a record of daily production rates of gravel or crushed stone produced. [PCC 17.16.370.G]

2. Facility-Wide Non-NSPS

a. Baghouse Inspection

The Permittee shall record results of the inspections required in III.B.2.a in a log to be kept on site.

b. Opacity Check

For the visible emissions check required in III.B.2.b of the Specific Conditions, the Permittee shall record the date and time of the check, the name of the person conducting the check, the results of the check, and the corrective action taken (if required).

C. Facility-Wide Operations

1. Operational Limitations

The Permittee shall maintain a record of the rolling total production detailed in III.C.1

2. Opacity Check

The Permittee shall record all other visible emissions checks of the facility plant equipment, supporting equipment and general plant site at least once per shift. Records of such checks shall include at minimum the information listed in IV.A of the Specific Conditions.

3. Retention of Records

All records required by this permit shall be retained for at least five years. [PCC 17.24.020.A]

**V. Reporting Requirements**

[PCC 17.12.185.A.5]

**A. NSPS Affected Facilities****[Federally Enforceable Conditions]**

## Aggregate Plant

## 1. Performance Tests

- a. The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in II.A.1.a of the Specific Conditions, including reports of opacity observations made using EPA Reference Method 9, Appendix A in 40 CFR 60 to demonstrate compliance with those standards. [40 CFR 60.676(f)]
- b. The reports shall be received no later than 30 days after completion of the test.

## 2. Notification Requirement

The Permittee shall furnish the Control Officer written notification or, if acceptable to both the Control Officer and the Permittee, electronic notification, as follows:

[40 CFR 670(f) &amp; Table 1 to Subpart OOO of 40 CFR 60 &amp; 40 CFR 60.7(a) (4)]

- a. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted. This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Control Officer may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]
- b. When an existing facility is replaced by a piece of equipment of equal or smaller size, having the same function as the existing facility, and there is no increase in the amount of emissions, the following capabilities must be submitted to the Control Officer for both the replaced equipment and the replacement equipment: [40 CFR 60.670(d) & 40 CFR 60.676(a)]
  - i. Tons per hour for crushers;
  - ii. Total surface area of screen tops;
  - iii. Width of conveyor belts;
  - iv. Storage tons for bins.
- c. Any screening operation, bucket elevator, or belt conveyor that processes saturated material and subsequently processes unsaturated materials, shall be reported by Permittee to the Control Officer within 30 days following such change. At the time of such change, the screening operation, bucket elevator, or belt conveyor becomes subject to II.A.1.a of the Specific Conditions and the collateral Monitoring, Record Keeping, Reporting and Testing. [40 CFR 60.676(g)]

**B. Non NSPS Affected Facilities**

See Additional Permit Requirements.

C. Facility-Wide Operations

See Additional Permit Requirements.

**VI. Testing Requirements**

[PCC 17.12.050 & PCC 17.20.010]

For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed.

A. NSPS Affected Facilities

**[Federally Enforceable Conditions]**

Aggregate Plant

1. Initial Performance Testing

Compliance with II.A.1.a of the Specific Conditions requires an initial performance test be conducted on each affected facility as detailed in VI.A.3 of the Specific Conditions.

[40 CFR 670(f) & 40 CFR 60.8(a)]

2. Conditions of Performance Testing

a. Performance tests shall be conducted under such conditions as the Control Officer shall specify to the plant operator based on representative performance of the affected facility. The Permittee shall make available to the Control Officer such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]

b. The owner or operator of an affected facility shall provide the Control Officer at least seven (7) days prior notice of any performance test, except as specified under other subparts, to afford the Control Officer the opportunity to have an observer present. If after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Control Officer as soon as possible of any delay in the original test date, either by providing at least seven (7) days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Control Officer (or delegated State or local agency) by mutual agreement. [40 CFR 60.8(d) & 40 CFR 675(g)]

3. Opacity Testing Standards

In determining compliance with the opacity standards in II.A.1.a of the Specific Conditions, the Permittee shall use EPA Reference Method 9, Appendix A in 40 CFR 60 with the following additions:

[40 CFR 60.675(c)(1)]

a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations must be 30 minutes (five 6-minute averages).  
[40 CFR 60.675(c)(3)]

4. Performance Test Exemption

- a. When an existing facility is replaced by a piece of equipment of equal or smaller size, having the same function as the existing facility and there is no increase in the amount of emissions, the new facility is exempt from performance testing, but the Permittee must follow the procedures detailed in II.C.5 & V.A.2.b of the Specific Conditions.  
[40 CFR 60.670(d)(1)]
- b. The Permittee shall not qualify for the exemption if all of the existing facilities in a production line are replaced with new facilities.  
[40 CFR 60.670(d)(3)]

B. Non NSPS Affected Facilities

1. Opacity

When required, the Permittee shall perform EPA Method 9 visible emissions observations on the facility operations to demonstrate compliance with the opacity standard.

C. Facility-Wide Operations

1. Opacity

When required, the Permittee shall perform EPA Method 9 visible emissions observations on the facility operations to demonstrate compliance with the opacity standard.

2. Alternative Test Method

The Permittee may submit an alternate and equivalent test method(s) that is listed in 40 CFR Subpart 60, Appendix A, to the Control Officer in a test plan, for approval by the Control Officer.  
[PCC 17.12.045.D]

## ADDITIONAL PERMIT REQUIREMENTS

### I. COMPLIANCE WITH PERMIT CONDITIONS

[PCC 17.12.185.A.7.a & b]

- A. The Permittee shall comply with all conditions of this permit including all applicable requirements of Arizona air quality statutes and the air quality rules. Any permit noncompliance constitutes a violation of the Arizona Revised Statutes and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
- B. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit. The report shall be in 2 parts as specified below: [PCC 17.12.185.A.5 & PCC 17.12.040]
1. Notification by telephone or facsimile within 24 hours of the time the Permittee first learned of the occurrence of excess emission that includes all available information from 17.12.040.B. The number to report excess emissions is **520-724-7400**. The facsimile number is **520-838-7432**.
  2. Detailed written notification by submission of an excess emissions report within 72 hours of the notification under I.B.1 above. **Send to PDEQ 33 N. Stone Ave, Suite 700, Tucson, Arizona 85701.**
- C. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. The permit does not convey any property rights of any sort, or any exclusive privilege to the permit holder.
- E. The Permittee shall pay fees to the Control Officer pursuant to PCC 17.12.520. [PCC 17.12.185.A.9 & PCC 17.12.520]

### II. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE

[PCC 17.12.185.A.7.c]

The permit may be revised, reopened, revoked and reissued, or terminated for cause pursuant to PCC 17.12.270. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination; or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

### III. DUTY TO PROVIDE INFORMATION

[PCC 17.12.165.G & PCC 17.12.185.A.7.e]

- A. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records to the Control Officer along with a claim of confidentiality.
- B. If the Permittee has failed to submit any relevant facts or if the Permittee has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

### IV. SEVERABILITY CLAUSE

[PCC 17.12.185.A.6]

The provisions of this permit are severable. If any provision of this permit is held invalid, the remainder of this permit shall not be affected thereby.

## **ATTACHMENT 1: APPLICABLE REGULATIONS**

Code of Federal Regulations

Chapter 40 Part 60:

Subpart 000 Standards of Performance for Non-Metallic Mineral Processing Plants

Pima County Code Title 17, Chapters 17.12 & 17.16:

- 17.12.040 Reporting Requirements
- 17.12.045 Test Methods and Procedures
- 17.12.050 Performance Tests
- 17.12.165 Permit Application Processing Procedures for Class II and Class III Permits
- 17.12.185 Permit Contents for Class II and Class III Permits
- 17.12.190 Permits Containing Synthetic Emission Limitations and Standards
- 17.12.520 Fees Related to Class II and Class III Permits
- 17.16.010 Local rules and standards; Applicability of more than one standard
- 17.16.020 Noncompliance with applicable standards
- 17.16.030 Odor Limiting Standard
- 17.16.050 Visibility Limiting Standard
- 17.16.060 Fugitive Dust Producing Activities
- 17.16.100 Particulate Materials
- 17.16.110 Storage Piles
- 17.16.130 Applicability
- 17.16.370 Standards of Performance for Gravel or Crushed Stone Processing Plants
- 17.16.380 Standards of Performance for Concrete Batch Plants

**ATTACHMENT 2: EQUIPMENT LIST**

**Table I Aggregate Plant – Primary Crushing**

| <b>Equipment ID</b> | <b>Description</b>    | <b>Max Capacity Tons/hr</b> | <b>Manufacturer</b> | <b>Model</b>    | <b>Serial No.</b> | <b>Date of Manufacture</b> | <b>NSPS Y/N</b> | <b>Opacity Limit %</b> |
|---------------------|-----------------------|-----------------------------|---------------------|-----------------|-------------------|----------------------------|-----------------|------------------------|
| 45.8801             | Feeder                | 700                         | Trio                | 46" x 20' T4620 | unknown           | January 2008               | N <sup>1</sup>  | 20                     |
| 47.8077             | Conveyor              | 700                         | United Machinery    | 36" x 100'      | unknown           | 1980                       | N               | 20                     |
| 47.8069             | Conveyor              | 700                         | Kolberg             | 36" x 60'       | unknown           | 1985                       | Y               | 10                     |
| 47.8070             | Conveyor              | 700                         | Kolberg             | 36" x 60'       | unknown           | 1985                       | Y               | 10                     |
| 47.8072             | Conveyor              | 700                         | El Jay              | 36" x 20'       | unknown           | 1990                       | Y               | 7                      |
| 43.8021             | 3-Deck Screen         | NA                          | Cedar Rapids        | TSH 5163-26     | TRXS5163TDUCE134  | 2012                       | Y               | 7                      |
| 156009              | Rollercone w/Conveyor | 475                         | El Jay              | 54"             | unknown           | 1990                       | Y               | 12                     |
| 47.8054             | Conveyor              | 700                         | Cedar Rapids        | 30" x 60'       | unknown           | 1985                       | Y               | 7                      |
| 88.8011             | Lime Silo (Boneyard)  | NA                          | Helco               | 32-ton          | E34175            | 1975                       | N               | 20                     |
| 47.8094             | Stacker               | 700                         | Kolberg             | 36" x 100'      | unknown           | 1985                       | Y               | 7                      |

<sup>1</sup> Pursuant to 40 CFR 60.670(a)(1) the Bin Feeders are not NSPS affected equipment and thus are not subject to the emission limits and standards of the subpart. The Bin Feeders are however subject to facility-wide emission limits and standards identified in this permit.

**Table II Aggregate Plant – Secondary Crushing**

| <b>Equipment ID</b> | <b>Description</b>        | <b>Max Capacity Tons/hr</b> | <b>Manufacturer</b> | <b>Model</b> | <b>Serial No.</b> | <b>Date of Manufacture</b>     | <b>NSPS Y/N</b> | <b>Opacity Limit %</b> |
|---------------------|---------------------------|-----------------------------|---------------------|--------------|-------------------|--------------------------------|-----------------|------------------------|
| 47.8801             | Conveyor                  | 700                         | Reuter              | 30" x 36'    | 30600308-3        | March 2008                     | Y               | 7                      |
| 47.8803             | Conveyor                  | 700                         | Reuter              | 30" x 30'    | 30300108-5        | March 2008                     | Y               | 7                      |
| 41.8801             | Cone Crusher w/Conveyor   | 460                         | KPI - JCI           | JCI K300     | 80538             | March 2008                     | Y               | 15                     |
| 47.8807             | Conveyor                  | 700                         | Reuter              | 30" x 30'    | 30300707-4        | July 2007                      | Y               | 10                     |
| 43.8801             | 3-Deck Screen w/ Conveyor | N/A                         | JCI                 | JCI720LPPM   | P080503           | June 2008                      | Y               | 7                      |
| BFI                 | Bin Feeder <sup>2</sup>   | N/A                         | unknown             | unknown      | unknown           | 8/31/83 - 4/22/08 <sup>1</sup> | N               | 20                     |
| 47.8805             | Conveyor                  | 700                         | Reuter              | 30" x 30'    | 30300805-3        | August 2005                    | Y               | 7                      |
| 47.8055             | Conveyor                  | 700                         | unknown             | 24" x 20     | unknown           | 8/31/83 - 4/22/08 <sup>1</sup> | Y               | 10                     |
| 47.8058             | Conveyor                  | 700                         | unknown             | 24" x 40'    | unknown           | 8/31/83 - 4/22/08 <sup>1</sup> | Y               | 10                     |
| 47.8804             | Conveyor                  | 700                         | Reuter              | 30" x 60'    | 30600308-5        | March 2008                     | Y               | 7                      |
| 47.8806             | Conveyor                  | 700                         | Reuter              | 30" x 60'    | 30600308-4        | March 2008                     | Y               | 7                      |

<sup>1</sup> Plant purchased by Staker & Parsons, Inc., in 2007. Permit transferred to CalMat in 2015. This existing equipment stayed onsite. Without specific dates, it is assumed all is subject to NSPS OOO for the post-August 31, 1983 standards, but not subject to the post-April 22, 2008 standards.

<sup>2</sup> Pursuant to 40 CFR 60.670(a)(1) the Bin Feeders are not NSPS affected equipment and thus are not subject to the emission limits and standards of the subpart. The Bin Feeders are however subject to facility-wide emission limits and standards identified in this permit.

**Table III Wash Plant**

| <b>Equipment ID</b> | <b>Description</b>     | <b>Max Capacity Tons/hr</b> | <b>Manufacturer</b> | <b>Model</b>    | <b>Serial No.</b> | <b>Date of Manufacture</b> | <b>NSPS Y/N</b> | <b>Opacity Limit %</b> |
|---------------------|------------------------|-----------------------------|---------------------|-----------------|-------------------|----------------------------|-----------------|------------------------|
| 45.8202             | Belt Feeder            | 500                         | Helmic              | 42"             | Unknown           | 1981                       | N               | 20                     |
| 47.8079             | Conveyor               | 500                         | Carter Welding      | 36" x 180'      | Unknown           | 1993                       | Y               | 10                     |
| 42.8801             | Course Washer          | 500                         | EIW                 | Twin 36"        | 15783             | 1998                       | N               | 20                     |
| 43.8018             | 3-Deck Screen          | 500                         | JCI                 | 6' x 20'        | 98H03632          | 1998                       | N               | 20                     |
| 42.8302             | Course Washer          | 500                         | Trio                | TW36            | 3618016           | 2003                       | N               | 20                     |
| 42.8901             | Single Screw           | 500                         | EIW                 | 13703 (24"x20') | Unknown           | 1989                       | N               | 20                     |
| 47.8093             | Conveyor               | 500                         | Helmic              | 24" x 80'       | 246554AA          | 1981                       | N               | 20                     |
| 42.8902             | Single Screw           | 500                         | EIW                 | 9452 (24" x25') | Unknown           | 1989                       | N               | 20                     |
| 47.8092             | Conveyor               | 500                         | Kolberg             | 24" x 80'       | 50801308085       | 1980                       | N               | 20                     |
| 47.8097             | Conveyor               | 500                         | Helmic              | 36" x 100'      | 9367985AA         | 1995                       | N               | 20                     |
| 42.8808             | Super Cutter Separator | n/a                         | AZFAB               | 2000-150        | SCHC006           | 2003                       | N               | 20                     |
| 42.8807             | Durability Cell        | n/a                         | AZFAB               | None            | DAC003            | 2003                       | N               | 20                     |
| 42.8806             | Super Cutter Module    | n/a                         | AZFAB               | None            | DWM008            | 2003                       | N               | 20                     |
| 43.8301             | Dewatering Screen      | n/a                         | AZFAB               | None            | DWS007            | 2003                       | N               | 20                     |
| 47.8095             | Conveyor               | 500                         | Marco               | 30" x 80'       | Unknown           | 1982                       | N               | 20                     |
| 47.8053             | Conveyor               | 500                         | Marco               | 30" x 80'       | Unknown           | 1982                       | N               | 20                     |
| 42.8812             | Single Material Washer | 500                         | Kolberg             | 6036-195 (36")  | 406540            | 2007                       | N               | 20                     |

**Table IV Concrete Batch Plant A**

| Equipment ID | Description                        | Max Capacity | Manufacturer | Model   | Serial No. | Date of Manufacture | NSPS Y/N |
|--------------|------------------------------------|--------------|--------------|---------|------------|---------------------|----------|
| 1113521      | Concrete Batch Plant A (Inclusive) | 451 TPH      | Besser Appco | unknown | unknown    | 2000                | N        |
| 1113526      | Baghouse                           | 6500 CFM     | C&W          | RA-140  | unknown    | 2000                | N        |

**Table V Concrete Batch Plant B**

| Equipment ID | Description                        | Max Capacity | Manufacturer | Model  | Serial No. | Date of Manufacture | NSPS Y/N |
|--------------|------------------------------------|--------------|--------------|--------|------------|---------------------|----------|
| 1113528      | Concrete Batch Plant B (Inclusive) | 338 TPH      | Ross Bandit  | Bandit | Unknown    | 1984                | N        |
| 1113536      | Baghouse                           | 6500 CFM     | C&W          | RA-140 | unknown    | 2000                | N        |

**Table VI Heaters/Boilers (Insignificant)**

| Equipment ID | Description      | Max Capacity | Manufacturer | Model    | Serial No. | Date of Manufacture | Fuel | NSPS Y/N |
|--------------|------------------|--------------|--------------|----------|------------|---------------------|------|----------|
| 1113523      | Hot Water Heater | 1 MMBTU      | Power Flame  | CR2-6-15 | 070095474  | 2000                | NG   | N        |