

CLASS II SYNTHETIC MINOR AIR QUALITY PERMIT

DRAFT PERMIT No. 93236

PERMITTEE: Vulcan Asphalt, LLC
FACILITY: Yuma Hot-Mix Asphalt Plant
PLACE ID: 196006
DATE ISSUED: **TBD**
EXPIRY DATE: **TBD**

SUMMARY

This Class II synthetic minor air quality permit is issued to Vulcan Asphalt, LLC, the Permittee, for the continued operation of the Yuma Hot-Mix Asphalt Plant. The facility is located at 4744 Hwy-95, Yuma, AZ 85365; physical place ID: 4635.

This facility has a maximum permitted asphalt production throughput 5,250 tons per day and 429,400 tons per year. The facility's maximum permitted crushing and screening throughput is 2,880 tons per day. A Class II synthetic minor permit is required because the facility's uncontrolled emissions are greater than major source thresholds before voluntary limits.

This permit is issued in accordance with Arizona Revised Statutes (ARS) 49-426. It contains requirements from Title 18, Chapter 2 of the A.A.C. and Title 40 of the Code of Federal Regulations. All definitions, terms, and conditions used in this permit conform to those in the Arizona Administrative Code R18-2-101 et. seq. (A.A.C.) and Title 40 of the Code of Federal Regulations (CFR), except as otherwise defined in this permit.

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ATTACHMENT "A": GENERAL PROVISIONS

I. PERMIT EXPIRATION AND RENEWAL

- A. This permit is valid for a period of five (5) years from the date of issuance.
[ARS § 49-426.F, A.A.C. R18-2-306.A.1]
- B. The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.
[A.A.C. R18-2-304.D.2]

II. COMPLIANCE WITH PERMIT CONDITIONS

- A. The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance 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.
[A.A.C. R18-2-306.A.8.a]
- B. 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.
[A.A.C. R18-2-306.A.8.b]

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

- A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[A.A.C. R18-2-306.A.8.c]
- B. The permit shall be reopened and revised under any of the following circumstances:
1. The Director or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; and
[A.A.C. R18-2-321.A.1.c]
 2. The Director or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.
[A.A.C. R18-2-321.A.1.d]
- C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening

shall be made as expeditiously as practicable. Permit reopenings shall not result in a resetting of the five-year permit term.

[A.A.C. R18-2-321.A.2]

IV. POSTING OF PERMIT

A. The Permittee shall post this permit or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:

[A.A.C. R18-2-315.A]

1. Current permit number; or
2. Serial number or other equipment ID number that is also listed in the permit to identify that piece of equipment.

B. A copy of the complete permit shall be kept on site.

[A.A.C. R18-2-315.B]

V. FEE PAYMENT

The Permittee shall pay fees to the Director pursuant to ARS § 49-426(E) and A.A.C. R18-2-326.

[A.A.C. R18-2-306.A.9 and -326]

VI. EMISSIONS INVENTORY QUESTIONNAIRE AND EMISSIONS STATEMENT

A. Emissions Inventory Questionnaire

1. The Permittee shall complete and submit to the Director an emissions inventory questionnaire no later than June 1 every three years beginning June 1, 2021. At the Director's request, the Permittee may be required to complete and submit emissions inventory questionnaires in addition to the triennial emissions inventory questionnaire. The Director shall notify the Permittee in writing of the decision to require additional emissions inventory questionnaires.

[A.A.C. R18-2-327.A.1.b]

2. The emissions inventory questionnaire shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.A.3 for the previous calendar year.

[A.A.C. R18-2-327.A.3]

3. The Permittee shall submit to the Director an amendment to an emissions inventory questionnaire, containing the documentation required by A.A.C. R18-2-327.A.3, whenever the Permittee discovers or receives notice, within two years of the original submittal, that incorrect or insufficient information was submitted to the Director by a previous emissions inventory questionnaire. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. If the incorrect or insufficient information resulted in an incorrect annual emissions fee, the Director shall require that additional payment be made or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if

the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.A.4]

B. Emissions Statement

1. If the source operated in an ozone nonattainment area and actual emissions of nitrogen oxides (NO_x) and/or volatile organic compounds (VOCs) during the calendar year are 25 tons or more, then the Permittee shall complete and submit to the Director an emissions statement no later than June 1 of the following year. If the Permittee submits an emission inventory questionnaire under Condition VI.A, then the Permittee is not required to also submit an emissions statement for that submission year.

[A.A.C. R18-2-327.B.1 and B.5]

2. The emissions statement shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.B.2 for the previous calendar year.

[A.A.C. R18-2-327.B.2]

3. If either NO_x or VOC annual emissions are greater than or equal to 25 tons, the other pollutant shall be included in the emissions statement even if less than 25 tons.

[A.A.C. R18-2-327.B.3]

4. The Permittee shall submit to the Director an amendment to an emissions statement containing the documentation required by A.A.C. R18-2-327.B.2 whenever the Permittee discovers or receives notice within two years of the original submittal that incorrect or insufficient information was submitted to the Director by a previous emissions statement. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.B.4]

VII. COMPLIANCE CERTIFICATION

- A.** The Permittee shall submit a compliance certification to the Director annually which describes the compliance status of the source with respect to each permit condition. The certification shall be submitted no later than September 15th, and shall report the compliance status of the source during the period between August 1st of the previous year and July 31st of the current year.

[A.A.C. R18-2-309.2.a]

- B.** The compliance certifications shall include the following:

1. Identification of each term or condition of the permit that is the basis of the certification;

[A.A.C. R18-2-309.2.c.i]

2. Identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period;
[A.A.C. R18-2-309.2.c.ii]
 3. Status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certifications shall identify each deviation (including any deviations reported pursuant to Condition XII.B of this Attachment) during the period covered by the certification and take it into account for consideration in the compliance certification
[A.A.C. R18-2-309.2.c.iii]
 4. Other facts the Director may require in determining the compliance status of the source.
[A.A.C. R18-2-309.2.c.iv]
- C. A progress report on all outstanding compliance schedules shall be submitted every six months beginning six months after permit issuance.
[A.A.C. R18-2-309.5.d]

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[A.A.C. R18-2-309.3]

IX. INSPECTION AND ENTRY

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

- A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;
[A.A.C. R18-2-309.4.a]
- B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
[A.A.C. R18-2-309.4.b]
- C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
[A.A.C. R18-2-309.4.c]
- D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and
[A.A.C. R18-2-309.4.d]
- E. Record any inspection by use of written, electronic, magnetic and photographic media.

[A.A.C. R18-2-309.4.e]

X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD

If this source becomes subject to a standard promulgated by the Administrator pursuant to Section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

[A.A.C. R18-2-304.D.3]

XI. ACCIDENTAL RELEASE PROGRAM

If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

[40 CFR Part 68]

XII. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING

A. Excess Emissions Reporting

[A.A.C. R18-2-310.01.A, B, and C]

1. Excess emissions shall be reported as follows:

- a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:

[A.A.C. R18-2-310.01.A]

(1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XII.A.1.b below.

(2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XII.A.1.a(1) above.

b. The report shall contain the following information:

(1) Identity of each stack or other emission point where the excess emissions occurred;

[A.A.C. R18-2-310.01.B.1]

(2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;

[A.A.C. R18-2-310.01.B.2]

(3) Time and duration, or expected duration, of the excess emissions;

- [A.A.C. R18-2-310.01.B.3]
- (4) Identity of the equipment from which the excess emissions emanated;
[A.A.C. R18-2-310.01.B.4]
- (5) Nature and cause of the emissions;
[A.A.C. R18-2-310.01.B.5]
- (6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;
[A.A.C. R18-2-310.01.B.6]
- (7) Steps that were or are being taken to limit the excess emissions; and
[A.A.C. R18-2-310.01.B.7]
- (8) If the excess emissions resulted from start-up or malfunction, the report shall contain a list of the steps taken to comply with the permit procedures governing source operation during periods of startup or malfunction.
[A.A.C. R18-2-310.01.B.8]
2. In the case of continuous or recurring excess emissions, the notification requirements shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XII.A.1 above.
[A.A.C. R18-2-310.01.C]

B. Permit Deviations Reporting

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of prompt or otherwise specifies a timeframe for reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with Condition XII.A above is prompt for deviations that constitute excess emissions;
[A.A.C. R18-2-306.A.5.b.i]
2. Notice that is submitted within two working days of discovery of the deviation is prompt for deviations of permit conditions identified by Condition I.B.1 of Attachment "B";
[A.A.C. R18-2-306.A.5.b.ii]

3. Except as provided in Conditions XII.B.1 and 2, prompt notification of all other types of deviations shall be annually, concurrent with the annual compliance certifications required in Section VII, and can be submitted via myDEQ, the Arizona Department of Environmental Quality's online portal.

[A.A.C. R18-2-306.A.5.b.ii]

C. Emergency Provision

1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[A.A.C. R18-2-306.E.1]

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if Condition XII.C.3 below is met.

[A.A.C. R18-2-306.E.2]

3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

[A.A.C. R18-2-306.E.3]

- a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;

[A.A.C. R18-2-306.E.3.a]

- b. The permitted facility was being properly operated at the time of the emergency;

[A.A.C. R18-2-306.E.3.b]

- c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and

[A.A.C. R18-2-306.E.3.c]

- d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

[A.A.C. R18-2-306.E.3.d]

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

[A.A.C. R18-2-306.E.4]

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

[A.A.C. R18-2-306.E.5]

D. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

- a. Promulgated pursuant to Sections 111 or 112 of the Act;
[A.A.C. R18-2-310.A.1]
- b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;
[A.A.C. R18-2-310.A.2]
- c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;
[A.A.C. R18-2-310.A.3]
- d. Contained in A.A.C. R18-2-715.F; or
[A.A.C. R18-2-310.A.4]
- e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.
[A.A.C. R18-2-310.A.5]

2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.B]

- a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;
[A.A.C. R18-2-310.B.1]
- b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.B.2]
- c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift

labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;

[A.A.C. R18-2-310.B.3]

- d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.B.4]

- e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.B.5]

- f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

[A.A.C. R18-2-310.B.6]

- g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.B.7]

- h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;

[A.A.C. R18-2-310.B.8]

- i. All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.B.9]

- j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.

[A.A.C. R18-2-310.B.10]

3. Affirmative Defense for Startup and Shutdown

- a. Except as provided in Condition XII.D.3 below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.C.1]

- (1) The excess emissions could not have been prevented through careful and prudent planning and design;
[A.A.C. R18-2-310.C.1.a]
 - (2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;
[A.A.C. R18-2-310.C.1.b]
 - (3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.C.1.c]
 - (4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
[A.A.C. R18-2-310.C.1.d]
 - (5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
[A.A.C. R18-2-310.C.1.e]
 - (6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;
[A.A.C. R18-2-310.C.1.f]
 - (7) All emissions monitoring systems were kept in operation if at all practicable; and
[A.A.C. R18-2-310.C.1.g]
 - (8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.
[A.A.C. R18-2-310.C.1.h]
- b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XII.D.2 above.
[A.A.C. R18-2-310.C.2]
4. Affirmative Defense for Malfunctions During Scheduled Maintenance
- If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XII.D.2 above.
[A.A.C. R18-2-310.D]
5. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Condition XII.D.2 or XII.D.3, the Permittee shall demonstrate, through submission of the data and information required by this Condition XII.D and Condition XII.A.1 above, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.

[A.A.C. R18-2-310.E]

XIII. RECORDKEEPING REQUIREMENTS

- A.** The Permittee shall keep records of all required monitoring information including, but not limited to, the following:
1. The date, place as defined in the permit, and time of sampling or measurements;
[A.A.C. R18-2-306.A.4.a.i]
 2. The date(s) any analyses were performed;
[A.A.C. R18-2-306.A.4.a.ii]
 3. The name of the company or entity that performed the analyses;
[A.A.C. R18-2-306.A.4.a.iii]
 4. A description of the analytical techniques or methods used;
[A.A.C. R18-2-306.A.4.a.iv]
 5. The results of analyses; and
[A.A.C. R18-2-306.A.4.a.v]
 6. The operating conditions as existing at the time of sampling or measurement.
[A.A.C. R18-2-306.A.4.a.vi]
- B.** The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
[A.A.C. R18-2-306.A.4.b]

XIV. DUTY TO PROVIDE INFORMATION

- A.** The Permittee shall furnish to the Director, within a reasonable time, any information that the Director 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 Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.
[A.A.C. R18-2-304.G and -306.A.8.e]
- B.** If the Permittee has failed to submit any relevant facts or 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.

[A.A.C. R18-2-304.H]

XV. PERMIT AMENDMENT OR REVISION

The Permittee shall apply for a permit amendment or revision for changes to the facility which does not qualify for a facility change without revision under Section XVII below, as follows:

- A. Facility Changes that Require a Permit Revision; [A.A.C. R18-2-317.01]
- B. Administrative Permit Amendment; [A.A.C. R18-2-318]
- C. Minor Permit Revision; and [A.A.C. R18-2-319]
- D. Significant Permit Revision. [A.A.C. R18-2-320]
- E. The applicability and requirements for such action are defined in the above referenced regulations.

XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION

- A. Except for a physical change or change in the method of operation at a Class II source requiring a permit revision under A.A.C. R18-2-317.01, or a change subject to logging or notice requirements in Condition XVI.B, a change at a Class II source shall not be subject to revision, notice, or logging requirements under this Section. [A.A.C. R18-2-317.02.A]
- B. The following changes may be made if the source keeps on site records of the changes according to Condition XVI.F below: [A.A.C. R18-2-317.02.B]
 - 1. Implementing an alternative operating scenario, including raw materials changes;
 - 2. Changing process equipment, operating procedures, or making any other physical change if the permit requires the change to be logged;
 - 3. Engaging in any new insignificant activity listed in A.A.C. R18-2-101.68 but not listed in the permit;
 - 4. Replacing an item of air pollution control equipment listed in the permit with an identical (same model, different serial number) item. The Director may require verification of efficiency of the new equipment by performance tests; and
 - 5. A change that results in a decrease in actual emissions if the source wants to claim credit for the decrease in determining whether the source has a net emissions increase for any purpose. The logged information shall include a description of

the change that will produce the decrease in actual emissions. A decrease that has not been logged is creditable only if the decrease is quantifiable, enforceable, and otherwise qualifies as a creditable decrease.

- C. The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section, other than implementation of an alternate operating scenario under Condition XVI.B.1.

[A.A.C. R18-2-317.02.F]

- D. Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the Permittee under this Section over the term of the permit, constitutes a change under subsection A.A.C. R18-2-317.01.A.

[A.A.C. R18-2-317.02.G]

- E. A copy of all logs required under Condition XVI.B shall be filed with the Director within 30 days after each anniversary of the permit issuance date. If no changes were made at the source requiring logging, a statement to that effect shall be filed instead.

[A.A.C. R18-2-317.02.I]

- F. Logging Requirements

[Arizona Administrative Code, Appendix 3]

1. Each log entry required by a change under Condition XVI.B shall include at least the following information:
 - a. A description of the change, including:
 - (1) A description of any process change;
 - (2) A description of any equipment change, including both old and new equipment descriptions, model numbers, and serial numbers, or any other unique equipment ID number; and
 - (3) A description of any process material change.
 - b. The date and time that the change occurred.
 - c. The provisions of Condition XVI.B that authorizes the change to be made with logging.
 - d. The date the entry was made and the first and last name of the person making the entry.
2. Logs shall be kept for five (5) years from the date created. Logging shall be performed in indelible ink in a bound log book with sequentially number pages, or in any other form, including electronic format, approved by the Director.

XVII. TESTING REQUIREMENTS

- A.** The Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

[A.A.C. R18-2-312.A]

- B.** Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

[A.A.C. R18-2-312.C]

- C.** Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

[A.A.C. R18-2-312.B]

- D.** Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director, which must include the following, in addition to all other applicable requirements, as identified in the Arizona Testing Manual:

[A.A.C. R18-2-312.B]

1. Test duration;
2. Test location(s);
3. Test method(s); and
4. Source operation and other parameters that may affect test results.

- E.** Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

[A.A.C. R18-2-312.E]

1. Sampling ports adequate for test methods applicable to the facility;
2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

- F.** Interpretation of Final Results

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of the results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, must be submitted.

[A.A.C. R18-2-306.A.3.c and A.A.C. R18-2-312.F]

G. Report of Final Test Results

A written report of the results of performance tests conducted pursuant to 40 CFR 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 4 weeks after the test is performed, or as otherwise provided in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

[A.A.C. R18-2-312.A and B]

H. Extension of Performance Test Deadline

For performance testing required under Condition XVII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.

[A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.

[A.A.C. R18-2-312.J.2]

3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.

[A.A.C. R18-2-312.J.3]

4. Until an extension of the performance test deadline has been approved by the Director under Conditions XVII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVII.

[A.A.C. R18-2-312.J.4]

5. For purposes of this Section XVII, a “force majeure event” means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.

[A.A.C. R18-2-312.J.5]

XVIII. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

[A.A.C. R18-2-306.A.8.d]

XIX. SEVERABILITY CLAUSE

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force.

[A.A.C. R18-2-306.A.7]

XX. PERMIT SHIELD

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled “Permit Shield”. The permit shield shall not apply to minor revisions pursuant to Condition XV.C of this Attachment and any facility changes without a permit revision pursuant to Section XVI of this Attachment.

[A.A.C. R18-2-317.F, - 320, and -325]

XXI. PROTECTION OF STRATOSPHERIC OZONE

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.

[40 CFR Part 82]

XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulation.

[40 CFR Part 60 Subpart A and Part 63 Subpart A]

ATTACHMENT "B": SPECIFIC CONDITIONS

I. FACILITY-WIDE REQUIREMENTS

A. Opacity

1. Instantaneous Surveys and Six-Minute Observations

a. Instantaneous Surveys

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.A.1.a(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9 Certified Observer.

[A.A.C. R18-2-306.A.3.c]

b. Six-Minute Observations

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.A.1.b(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9.

c. The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all six-minute Method 9 observations required by this permit are conducted as a six-minute Alternative Method ALT-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous ALT-082 camera survey. Any six-minute Method 9 observation required by this permit can be conducted as a six-minute Alternative Method ALT-082

I. FACILITY-WIDE REQUIREMENTS

and any instantaneous visual survey required by this permit can be conducted as an instantaneous ALT-082 camera survey.

[A.A.C. R18-2-306.A.3.c]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.

b. If the visible emissions on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.

c. If the visible emissions on an instantaneous basis appears greater than the applicable opacity standard, then the Permittee shall immediately conduct a six-minute observation of the visible emissions.

(1) If the six-minute observation of the visible emissions is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.

(2) If the six-minute observation of the visible emissions is greater than the applicable opacity standard, then the Permittee shall do the following:

(a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;

(b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and

(c) Report the event as an excess emission for opacity in accordance with Condition XII.A of Attachment "A".

(d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

B. Recordkeeping and Reporting Requirements

1. Deviations from the following Attachment "B" permit conditions shall be promptly reported in accordance with Condition XII.B.2 of Attachment "A":

[A.A.C. R18-2-306.A.5.b]

a. Condition II.C.2.a

- b. Conditions II.E.2.a-c
- c. Condition VI.B.1.a
- 2. The Permittee shall maintain, on-site, available records of the manufacturer supplied operations and maintenance instructions or Operation and Maintenance Plan for minimizing emissions for all equipment identified in Attachment “C”.
[A.A.C. R18-2-306.A.4]
- 3. The Permittee shall submit reports of all monitoring activities required in Attachment “B” along with the compliance certifications required by Section VII of Attachment “A.”
[A.A.C. R18-2-306.A.5]

II. HOT MIX ASPHALT FACILITY

A. Applicability

This Section is applicable to the equipment identified in Attachment “C” as part of the Hot Mix Asphalt Plant.

B. Operational Limitations

- 1. The Permittee shall not operate the hot mix asphalt plant such that the throughput exceeds 5,250 tons per day.
[A.A.C. R18-2-306.01.A and -331.A.3.a]
[Material permit conditions are indicated by underline and italics]
- 2. The Permittee shall not operate the hot mix asphalt plant such that the throughput exceeds 429,400 tons per year in any rolling 12-month total.
[A.A.C. R18-2-306.01.A and -331.A.3.a]
[Material permit conditions are indicated by underline and italics]

C. Smoke Point Requirements

[A.A.C. R18-2-306.A.3.c]

1. Smoke Point Limits

- a. The Permittee shall have, on site, a certificate stating the asphaltic smoke point for the material being processed.
- b. The Permittee shall not operate the dryer burner in such a way that the temperature of the hot aggregate mixture is equal to or greater than the smoke point of the material being processed.

2. Monitoring and Record Keeping Requirements

[A.A.C. R18-2-306.A.2 and -331.A.3.c]

[Material permit conditions are indicated by underline and italics]

- a. The Permittee shall install and maintain a temperature monitoring device and shall continuously record the temperature of the hot aggregate.

- b. The Permittee shall maintain records of the temperature of the hot aggregate mixture to demonstrate compliance with Condition II.C.1.b above. These records shall be provided to the Department upon request.

D. Fuel Limitations for the Drum Dryer

1. Permitted Fuels

- a. The Permittee shall only burn on-specification used oil or diesel fuel in the dryer burner.

[A.A.C. R18-2-306.A.2]
- b. The Permittee shall only burn on-specification used oil under the following conditions:
 - (1) The used oil must be analyzed and certified by the marketer (oil supplier) to be "on specification" according to the definition in A.R.S. §49-801;
 - (2) The flash point shall be at least 100°F; and
 - (3) The contaminants must not exceed the levels (in parts per million by weight) provided in Table 1:

Table 1

Name of Pollutant	Limit
Arsenic	5 ppm
Cadmium	2 ppm
Chromium	10 ppm
Lead	100 ppm
Halogens	1000 ppm
PCBs	2 ppm

- c. *The Permittee shall not burn hazardous waste in the drum dryer.*

[A.A.C. R18-2-306.A.2 and -331.A.3.c]
 [Material permit conditions are indicated by underline and italics]

2. Record Keeping Requirements

[A.A.C. R18-2-306.A.3.c]

The Permittee shall maintain, on site, copies of the fuel analysis supplied by the marketer for each batch of "on specification" used oil, and shall be responsible for ensuring that the results of the analyses confirm that the contaminant levels specified in Condition II.D.1.b and Table 1 above are not exceeded.

E. Particulate Matter & Opacity

1. Emissions Limitations & Standards

- a. The Permittee shall not cause or allow to be discharged into the atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

[40 CFR 60.92]

- b. The Permittee shall not cause or allow to be discharged into the atmosphere from any equipment identified in Attachment "C" as part of the Hot Mix Asphalt Plant any plume which exhibits opacity greater than 20 percent.

[A.A.C. R18-2-331.A.3.f and 40 CFR 60.92]

[Material permit conditions are indicated by underline and italics]

2. Air Pollution Control Requirements

[A.A.C. R18-2-306.01 and -331.A.3.d and e]

[Material permit conditions are indicated by underline and italics]

- a. Drum Dryer Baghouse

At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate a baghouse on the drum dryer in a manner consistent with good air pollution control practice for minimizing particulate matter emissions.

- b. Mineral Supplement Silo Baghouse and Cyclone

(1) At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain, and operate a cyclone on the mineral supplement silo in a manner consistent with good air pollution control practice for minimizing particulate matter emissions.

(2) At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain, and operate a baghouse downstream of the cyclone on the mineral supplement silo in a manner consistent with good air pollution control practice for minimizing particulate matter emissions.

(3) Loading of mineral supplement silo shall be conducted in such a manner that the displaced air does not by-pass the baghouse and is not directly vented to the atmosphere.

- c. Spray Bars

The Permittee shall maintain and operate spray bars at all times, including periods of startup, shutdown, and malfunction, to control visible emissions from screening, handling, transporting or conveying of materials, or other operations likely to result in significant amounts of airborne dust, or the

material shall be adequately wet to minimize visible emissions to the extent practicable.

3. Monitoring, Record Keeping and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. The Permittee shall, to demonstrate compliance with the opacity limit contained in Condition II.D.1.b above, conduct monthly monitoring of visible emissions from the equipment covered by this Section in accordance with Condition I.A of this attachment.

b. On an annual basis, the Permittee shall conduct a black light inspection on the bags contained in the drum dryer baghouse in an effort to detect broken or leaking bags. If broken or leaking bags are detected, the Permittee shall repair or replace the bags. Upon completion of the inspection, the Permittee shall record the name of the inspector, the date, the time, and the results of the inspection and repairs.

c. Baghouse Pressure Drop Monitoring

(1) The Permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the pressure drop across the drum dryer baghouse. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals (± 1 inch water gauge pressure) and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[A.A.C. R18-2-331.A.3.c]

[Material permit conditions are indicated by underline and italics]

(2) At the time of performance test, the Permittee shall monitor the pressure drop across the baghouse and establish the operating range. The operating range shall be +/- 30% of the average of the pressure drop readings recorded during the performance tests.

(3) The Permittee shall record the pressure drop across the baghouse once per day. If the pressure drop is outside the range established during the performance test, the Permittee shall take corrective action to bring this parameter within the normal range. The Permittee may use manufacture recommended range until the performance test is conducted and the operating range is established.

4. Testing Requirements

[A.A.C. R18-2-306.A.3.c and -312.A]

a. The Permittee shall, within 180 days of issuance of this permit, conduct performance tests for particulate matter (PM) from the drum dryer to show compliance with Condition II.E.1.a above.

III. ASPHALT HEATER REQUIREMENTS

b. The Permittee shall conduct subsequent tests on an annual basis.

5. Permit Shield

[A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.90 and 92.

III. ASPHALT HEATER REQUIREMENTS

A. Applicability

This Section is applicable to the asphalt heater identified in Attachment “C” as part of the Hot Mix Asphalt Plant.

B. Fuel Limitations

The Permittee shall only burn diesel fuel in the asphalt heater.

[A.A.C. R18-2-306.A.2]

C. Particulate Matter and Opacity

1. Emissions Limitations and Standards

[A.A.C. R18-2-724.C.1]

a. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel in the asphalt heater into the atmosphere in excess of the amounts calculated by the following equation:

$$E = 1.02Q^{0.769}$$

Where:

E = the maximum allowable particulate emission rate in pounds-mass per hour

Q = the heat input in million Btu per hour

b. For purposes of this Section, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all fuel-burning units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter, which may be emitted.

[A.A.C. R18-2-724.B]

c. The Permittee shall not cause, allow or permit the opacity of any plume or effluent from the asphalt heater to exceed 15 percent.

[A.A.C. R18-2-724.J]

2. Monitoring, Record Keeping, and Reporting

- a. The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier and heating value of the fuel. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c]

- b. The Permittee shall conduct monthly monitoring of visible emissions from the stack of the asphalt heater as specified in Condition I.A of this Attachment.

[A.A.C. R18-2-306.A.3.c]

- c. The Permittee shall report all 6-minute periods during which the visible emissions exceed 15 percent opacity, as required in Condition XII of Attachment "A"

[A.A.C. R18-2-724.J]

3. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-724.B, C.1, and J.

[A.A.C. R18-2-325]

D. Sulfur Dioxide

1. Emission Limitations and Standards

- a. The Permittee shall not emit or cause to emit more than 1.0 pound of sulfur dioxide per million Btu.

[A.A.C. R18-2-724.E]

- b. The Permittee shall only burn ultra low sulfur diesel fuel (sulfur content below 15 ppm by weight) in the asphalt heater.

[A.A.C. R18-2-306.A.2]

2. Monitoring, Record Keeping and Reporting Requirements

The Permittee shall keep records of fuel supplier certifications to demonstrate compliance with the sulfur content limit in Condition III.D.1 above.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-724.E.

[A.A.C. R18-2-325]

**IV. NEW SOURCE PERFORMANCE STANDARDS (NSPS) FOR NON-EMERGENCY
COMPRESSION IGNITION (CI) INTERNAL COMBUSTION ENGINE (ICE)**

A. Applicability

This Section is applicable to the guppy diesel engine identified in Attachment "C" as part of the Hot Mix Asphalt Plant.

B. Operational Limitations

The Permittee shall not operate the Guppy Diesel Engine more than 300 hours per year.

[A.A.C. R18-2-306.01.A and -331.A.3.a]

[Material permit conditions are indicated by underline and italics]

C. New Source Performance Standards (NSPS) Under 40 CFR Part 60, Subpart IIII for Stationary Non-Emergency CI ICE

1. General Requirements

a. Fuel Requirements

(1) The Permittee shall only use diesel fuel in the engine that meets the following requirements:

(a) Sulfur content: 15 ppm maximum; and

(b) Either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b) and 1039.305]

b. Operational Requirements

The Permittee shall comply with the following requirements, except as permitted in Condition IV.C.4.b:

(1) The Permittee shall operate and maintain the CI ICE and the control device according to the manufacturer's written instructions, over the entire life of the engine.

[40 CFR 60.4211(a)(1), 60.4206]

(2) The Permittee shall only change those engine settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)(2)]

(3) The Permittee shall meet the requirements of 40 CFR Part 1068, as they apply. These requirements include:

[40 CFR 60.4211(a)(3)]

(a) The Permittee shall not remove or render inoperative any pollution control device. This includes operating an engine without an adequate supply of urea if the emission control system relies on urea to control NOx emissions.

[40 CFR 1068.101(b)(1)]

(b) The Permittee shall not install a component that bypasses, impairs, defeats, or disables the control of emissions.

[40 CFR 1068.101(b)(2)]

- (c) The Permittee shall not remove or alter an emission control information label.

[40 CFR 1068.101(b)(7)]

2. Emissions Standards

- a. The Permittee shall comply with the following interim Tier 4 emission standards for model year 2012 engines with a rating greater than or equal to 56 kW and less than 75 kW:

- (1) 0.02 g/kW-hr particulate matter (PM)
- (2) 0.40 g/kW-hr nitrous oxides (NO_x)
- (3) 0.19 g/kW-hr non-methane hydrocarbons (NMHC)
- (4) 5.0 g/kW/hr carbon monoxide (CO)

[40 CFR 60.4201(a), 60.4204(b), and Table 4 of 1039.102]

3. Monitoring Requirements

If the engine is equipped with a diesel particulate filter, the filter must be installed with a backpressure monitor that notifies the Permittee when the high backpressure limit of the engine is approached.

[40 CFR 60.4209(b)]

4. Compliance Requirements

- a. The Permittee shall comply with the emission standards in Condition IV.C.2.a above by purchasing an engine certified to the those emission standards. The engine shall be installed and configured according to the manufacturer's specifications, except as permitted below in Condition IV.C.4.b.

[40 CFR 60.4211(c)]

- b. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee changes emission-related

settings in a way that is not permitted by the manufacturer. Performance tests shall be conducted in accordance with 40 CFR 60.4212(a) and (b).
[60 CFR 60.4211(g) and 60.4212(a) & (b)]

5. Recordkeeping Requirements

- a. The Permittee shall keep records of fuel supplier specifications. The specifications shall contain information regarding the name of fuel supplier, sulfur content, and cetane index or aromatic content in the fuel. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c]

- b. A copy of the engine instructions or procedures shall be kept onsite and made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3]

- c. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that the engine complies with the applicable standards and shall make the documentation available to ADEQ upon request.

[A.A.C. R18-2-306.A.4]

- d. The Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.

[40 CFR 60.4214(c)]

6. Permit Shield

Compliance with this Section shall be deemed compliance with 40 CFR 60.4201(a), 60.4204(b), 60.4206, 60.4207(b), 60.4209(b), 60.4211(a), (c), & (g), 60.4212(a) & (b), 60.4214(c), 1039.101, and 1039.305.

[A.A.C. R18-2-325]

D. National Emission Standards for Hazardous Air Pollutants (NESHAP) Under 40 CFR Part 63, Subpart ZZZZ NESHAP Requirements for Stationary Non-Emergency Reciprocating ICE

1. Compliance Requirements

The Permittee shall meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII for compression ignition engines (Condition IV.B). No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ.

[40 CFR 63.6590(c)(1)]

2. Permit Shield

Compliance with this Section shall be deemed compliance with 40 CFR 63.6590(c).

[A.A.C. R18-2-325]

V. CRUSHING AND SCREENING OPERATIONS SUBJECT TO NEW SOURCE PERFORMANCE STANDARDS (NSPS)

A. Applicability

This Section is applicable to the equipment identified in Attachment “C” as part of the Contracted Recycled Asphalt (RAP) Crushing and Screening Equipment.

B. Operational Limitations

The Permittee shall not operate the crushing & screening plant such that the throughput exceeds 2,880 tons per day.

[A.A.C. R18-2-306.01.A and -331.A.3.a]

[Material permit conditions are indicated by underline and italics]

C. Particulate Matter and Opacity

1. Emission Limitations and Air Pollution Control

- a. *The Permittee shall not allow to be discharged into the atmosphere from any crusher any fugitive emissions which exhibit visible emissions greater than 12 percent opacity.*

[40 CFR 60.672(b) and A.A.C. R18-2-331.A.3.f]

[Material permit conditions are indicated by underline and italics]

- b. *Water spray bars or equivalent control equipment shall be used whenever the equipment is operating, or material shall be adequately wet to minimize visible emissions to the extent practical.*

[A.A.C. R18-2-331.A.3.f and -306.A.2]

[Material permit conditions are indicated by underline and italics]

2. Monitoring, Reporting, and Recordkeeping Requirements

- a. When in operation, the Permittee shall conduct monthly opacity monitoring on the equipment under this Section to the applicable opacity standard, in accordance with I.A of Attachment “B”.

[A.A.C. R18-2-306.A.3.c]

- b. *The Permittee shall install, calibrate, maintain, and operate monitoring devices, or other approved methods, which can be used to determine the daily process weight of sand, gravel or crushed stone produced. The weighing devices shall have an accuracy of plus or minus 5 percent over their operating range.*

[A.A.C. R18-2-306.A.4 and R18-2-331.A.3.c]

[Material permit conditions are indicated by underline and italics]

- c. If wet suppression is used to control emissions from any affected facility the Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee shall initiate corrective action within 24 hours and complete

corrective action as expeditiously as practical if it is found that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.

[40 CFR 60.674(b)]

(1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Condition V.C.3.a(1) provided that the affected facility meets the following criteria.

(a) The Permittee conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections shall be conducted according to this V.C.2.c and Condition V.C.2.e and

[40 CFR 60.674(b)(1)(i)]

(b) The Permittee shall designate which upstream water spray(s) will be periodically inspected at the time of the initial performance test required by 40 CFR 60.11 and Condition V.C.2.e.

[40 CFR 60.674(b)(1)(ii)]

(2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under Condition V.B.2.e shall specify the control mechanism being used instead of the water sprays.

[40 CFR 60.674(b)(2)]

d. Wet Operations

The Permittee that operates any wet material processing operation that processes saturated material and subsequently processes unsaturated materials shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limits and the emission test requirements of 40 CFR 60.11.

[40 CFR 60.676(g)]

e. The Permittee shall record each periodic inspection required under Condition V.B.2.c(2) including dates and any corrective actions taken, in a logbook (in written or electronic format). The Permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Director upon request.

[40 CFR 60.676(b)(1)]

3. Testing Requirements

a. Initial Compliance

- (1) Unless the initial test has been conducted previously, the Permittee shall demonstrate initial compliance with the applicable opacity limit for fugitive emissions contained in Condition V.B.1.a by conducting initial performance tests according to 40 CFR 60.11 and the test methods and procedures of Condition V.C.3.b. Affected facilities that commenced construction, modification, or reconstruction on or after April 22, 2008, and are not controlled by water sprays or water carryover from upstream water sprays shall conduct a repeat performance test within 5 years of the previous test.

[Table 3 to 40 CFR 60 Subpart 000]

- b. In determining compliance with the fugitive emission opacity standards in Condition V.B.1.a, the Permittee shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

[40 CFR 60.675(c)(1)]

- (1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- (2) 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 of Appendix A-4 of 40 CFR 60, Section 2.1) must be followed.
- (3) 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.

- c. When determining compliance with the fugitive emissions standards for any affected facility under Condition V.C.1, the duration of the Method 9 observations shall be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits shall be based on the average of the five 6-minute averages.

[40 CFR 60.675(c)(3)]

- d. The Permittee may use the following as alternatives to the reference methods and procedures specified in Condition V.C.2.e:

[40 CFR 60.675(e)]

- (1) For the method and procedure of Condition V.C.3.b, if emissions from two or more facilities continuously interfere so that the

VI. FUGITIVE DUST REQUIREMENTS

opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

- (a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.
 - (b) Separate the emissions so that the opacity of emissions from each affected facility can be read.
- (2) As an alternative to the methods specified in Condition V.B.3.b, Method 5I may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations.
- e. For performance tests involving only Method 9 testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. [40 CFR 60.675(g)]
 - f. If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in 40 CFR 60.671) of the affected facility, then with approval from the Director, the Permittee may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility. [40 CFR 60.675(i)]

D. Permit Shield

Compliance with of this Section shall be deemed compliance with 40 CFR 60.672(b), 674(b), 675(c), (e), (g), & (i), and 676(b),(g) and Table 3 in 40 CFR 60 Subpart OOO. [A.A.C.R18-2-325]

VI. FUGITIVE DUST REQUIREMENTS

A. Applicability

Section VI applies to any non-point source of fugitive dust in the facility.

B. Particulate Matter and Opacity

Open Areas, Roadways & Streets, Storage Piles, and Material Handling

1. Emission Limitations/Standards

- a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

- b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:
- (1) Keep dust and other types of air contaminants to a minimum in an open area where construction operations, repair operations, demolition activities, clearing operations, leveling operations, or any earth moving or excavating activities are taking place, by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;
[A.A.C. R18-2-604.A]
 - (2) Keep dust to a minimum from driveways, parking areas, and vacant lots where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;
[A.A.C. R18-2-604.B]
 - (3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway or alley is used, repaired, constructed, or reconstructed;
[A.A.C. R18-2-605.A]
 - (4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust. Earth or other material that is deposited by trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits;
[A.A.C. R18-2-605.B]
 - (5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust;
[A.A.C. R18-2-606]
 - (6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;
[A.A.C. R18-2-607.A]
 - (7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;
[A.A.C. R18-2-607.B]

VII. OTHER PERIODIC ACTIVITIES

- (8) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

2. Air Pollution Control Requirements

Unpaved Roads and Storage Piles

Water, or an equivalent control, shall be used to control visible emissions from unpaved roads and storage piles.

[A.A.C. R18-2-306.A.2 and -331.A.3.d]

[Material Permit Condition is indicated by underline and italics]

3. Monitoring and Recordkeeping Requirements

- a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition VI.B.1.b above were performed and the control measures that were adopted.

[A.A.C. R18-2-306.A.3.c]

b. Opacity Monitoring Requirements

Each month, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A.

[A.A.C. R18-2-306.A.3.c]

C. Permit Shield

Compliance with Section II shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607 and -614.

[A.A.C. R18-2-325]

VII. OTHER PERIODIC ACTIVITIES

A. Abrasive Blasting

1. Particulate Matter and Opacity

a. Emission Limitations/Standards

The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:

[A.A.C. R18-2-726]

- (1) Wet blasting;
- (2) Effective enclosures with necessary dust collecting equipment; or
- (3) Any other method approved by the Director.

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirement

Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

[A.A.C. R18-2-306.A.3.c]

- a. The date the project was conducted;
- b. The duration of the project; and
- c. Type of control measures employed.

3. Permit Shield

Compliance with Condition VII.A.1.a shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

[A.A.C.R18-2-325]

B. Use of Paints

1. Volatile Organic Compounds

a. Emission Limitations/Standards

While performing spray painting operations, the Permittee shall comply with the following requirements:

- (1) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.

[A.A.C.R18-2-727.A]

- (2) The Permittee or their designated contractor shall not either:

- (a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or
- (b) Thin or dilute any architectural coating with a photochemically reactive solvent.

[A.A.C.R18-2-727.B]

VII. OTHER PERIODIC ACTIVITIES

- (3) For the purposes of Condition VII.B.1.a(2), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Condition VII.B.1.a(3)(a)-(c), or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:

[A.A.C.R18-2-727.C]

- (a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.
- (b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.
- (c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.
- (4) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition VII.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.

[A.A.C.R18-2-727.D]

b. Monitoring and Recordkeeping Requirements

- (1) Each time a spray painting project is conducted, the Permittee shall make a record of the following:
- (a) The date the project was conducted;
- (b) The duration of the project;
- (c) Type of control measures employed;
- (d) Safety Data Sheets (SDS) for all paints and solvents used in the project; and
- (e) The amount of paint consumed during the project.

- (2) Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition VII.B.1.b(1).

[A.A.C. R18-2-306.A.3.c]

c. Permit Shield

VII. OTHER PERIODIC ACTIVITIES

Compliance with Condition VII.B.1.a shall be deemed compliance with A.A.C.R18-2-727.

[A.A.C.R18-2-325]

2. Opacity

a. Emission Limitation/Standard

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

b. Permit Shield

Compliance with Condition VII.B.2.a shall be deemed compliance with A.A.C.R18-2-702.B.3.

[A.A.C. R18-2-325]

C. Demolition/Renovation - Hazardous Air Pollutants

1. Emission Limitation/Standard

The Permittee shall comply with all of the requirements of 40 CFR 61 Subpart M (National Emissions Standards for Hazardous Air Pollutants - Asbestos).

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirement

The Permittee shall keep all required records in a file. The required records shall include the "NESHAP Notification for Renovation and Demolition Activities" form and all supporting documents.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the Condition VII.C.1 shall be deemed compliance with A.A.C. R18-2-1101.A.12.

[A.A.C. R18-2-325]

ATTACHMENT "C": EQUIPMENT LIST

ATTACHMENT "C": EQUIPMENT LIST

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Hot Mix Asphalt Plant							
Feeder Bins w/ Conveyor	500 tph	CMI	6 Bin Cold Feed System 10×14×14	30-18734/1056051 / CX01679	1995	F-1	None
49' × 30" Conveyor	500 tph	Shop-Built	49' × 30"	39-6001	1986	B-1	None
Scalping Screen	400 tph	ACE	4' × 6'	30-25697/10025697 / P-02487	2005	SC-1	None
Mineral Supplement Silo w/Baghouse & Cyclone	92 tons	Martin	36' × 14"	09-18888 / 1055971	2001	Silo-1	NSPS Subpart I
Portable Supplement Guppy Silo	100 tons	US Transport	SME 142H	N/A	1981	Silo-2	NSPS Subpart I
Guppy Diesel Engine	100 HP	Deutz	BF 4M 2012	10438651	2012	N/A	NSPS Subpart III/ NESHAP Subpart ZZZZ
Mineral Supplement Auger	48.8 tph	unknown	unknown	SC555	2001	AG-1	None
Pug Mill	500 tph	Dakota	4' × 6'	30-6010 / 1624	2005	PM-1	None
Conveyor	500 tph	CMI	TCP-SE3647 47'x30"	29-26514 / 325	1985	B-2	None
Conveyor	500 tph	CMI	13' × 24"	29-6002	1986	B-3	None
Drum Dryer w/baghouse	500 tph	CMI	PVM2000	30-6007/1069182 / PVM2000-11	1986	HMA	NSPS Subpart I



ATTACHMENT "C": EQUIPMENT LIST

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Baghouse	1.5 MMscfm	CMI	APSI810	30-6006 / 132	1990	BAG-1	NSPS Subpart I
Asphalt Heater	1.2 MMBTU	HEATEC	HCS175	H20-131	2021	N/A	A.A.C. R-18-2-724
200's Screw Conveyor	50 tph	Martin	40' x 14"	34-6000	2005	SR-1	None
Conveyor	30 tph	Unknown	10' x 30"	unknown	Pre-2008	B-4	None
Self Erecting Bin System (SEB) w/ Slat Conveyor	80 tons	CMI	SE-195	34-6002 / 162	1997	N/A	NSPS Subpart I
Recycled Asphalt (RAP) Equipment – Vulcan Owned							
Rap Feeder - 2 Bin w/ conveyors	150 tph	unknown	unknown	unknown	Pre-2008	Bin-2	None
Conveyor	150 tph	20' x 30"	unknown	unknown	Pre-2008	B-5	None
Scalping Screen	150 tph	unknown	unknown	unknown	Pre-2008	SC-2	None
Conveyor	500 tph	CMI	30" x 77'	29-26511/ TCP SE-3647	1985	B-6	None
Recycled Asphalt (RAP) Crushing and Screening Equipment – Contracted							
Jaw Crusher	300 tph	TBD	TBD	TBD	TBD	TBD	NSPS Subpart OOO
Horizontal Impact Crusher	300 tph	TBD	TBD	TBD	TBD	TBD	NSPS Subpart OOO
Screen 1	300 tph	TBD	TBD	TBD	TBD	TBD	NSPS Subpart OOO
Screen 2	300 tph	TBD	TBD	TBD	TBD	TBD	NSPS Subpart OOO
Stacking Conveyor	300 tph	TBD	TBD	TBD	TBD	TBD	NSPS Subpart OOO
Insignificant Activities							
Asphalt Storage Tank	35,000 gal	CMI	CT-2015	27 / 6507 / 122	2002	N/A	No
Portable Asphalt Oil Tank	10,000 gal	Shopmade Holly	N/A	N/A	2005	N/A	No



ATTACHMENT "C": EQUIPMENT LIST

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Used Oil Storage Tank- Electric	10,000 gal	CEI	unknown	0862 / 1055955	1994	N/A	No
Used Oil Storage Tank- Unheated	15,000 gal	Shopmade	N/A	N/A	2000	N/A	No
Diesel Storage Tank	800 gal	Heatac	HSP-30	4753 / 1055998 / 3971	1997	N/A	No