Maricopa County AIR QUALITY DEPARTMENT

Permitting Division
Phone: 602-506-6010
Fax: 602-506-6985

Maricopa.gov/AQ
CleanAirMakeMore.com

MECP1 Mesa 1, LLC
ATTN: Therese Kerfoot
520 Zang Street, Suite 209
Broomfield, CO 80021

The purpose of the letter is to inform you that the application for a permit revision has been approved and will be incorporated into your Air Quality Permit. The applicable Permit Conditions are enclosed with this letter.

If you need assistance with the permit, please contact the Business Assistance Coordinator office at 602-506-5102 or contact the undersigned at 602-506-7248. Email communications may be sent to AQPermits@maricopa.gov.

MARICOPA COUNTY AIR QUALITY DEPARTMENT

Permitting Division

301 W. Jefferson St., Suite 410, Phoenix, Arizona 85003
Phone: 602-506-6010 Fax: 602-506-6985

AIR QUALITY PERMIT TO OPERATE AND/OR CONSTRUCT

(As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes)

ISSUED TO

MECP1 Mesa 1, LLC
3856 S Everton Terrace
Mesa, AZ 85212

This air quality permit to operate and/or construct does not relieve the applicant of the responsibility of meeting all air pollution regulations.

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

FACILITY NUMBER: F004157 **LEGACY PERMIT NUMBER:** **180012**

PERMIT NUMBER: P0008702 **REVISION DATE:** 07/22/2022

EXPIRATION DATE: 05/31/2023

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EQUIPMENT LIST 1

Any cited regulatory paragraphs or section numbers refer to the version of the rules and regulations that were in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise. However, in the event the rules and regulations are amended during the term of this Permit, the amended rules and regulations shall apply to this Permit. Whenever the term, Control Officer, is used in this Permit it shall be interpreted to mean, Control Officer or designated representative. Where the term "Rule" appears, it shall be construed to mean "Maricopa County Air Pollution Control Regulations" unless otherwise noted. Where the term "SIP Rule" appears, it shall be construed to mean "Maricopa County Air Pollution Control Regulations approved by the U.S. Environmental Protection Agency into the State Implementation Plan.

SPECIFIC CONDITIONS

EMERGENCY ENGINES

1. Allowable Emissions:

a. The Permittee shall not allow emissions into the atmosphere in excess of the following:

	Twelve Month Rolling Total Emission Limits (tons/year)
Nitrogen Oxide (NOx)	20.0

b. The 12-month rolling total emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. The Permittee shall keep this emission record on-site for inspection or submittal upon request.

[SIP Rule 220 § 302.2]

2. Operational Limitations:

a. The Permittee shall limit the total hours of operation of the emergency engines to no more than 80 hours each per any twelve consecutive months.

i. This hourly limitation serves as an enforceable limit to ensure the facility remains below the NOx Minor New Source Review (NSR) Modification Threshold of MCAQD Rule 100 §200.70 and NOx Best Available Control Technology (BACT) Threshold of MCAQD Rule 241 §304.

ii. Prohibition Against Circumvention: The submission of applications for permits or permit revisions for new or modified sources in phases so as to circumvent the requirements of MCAQD Rule 241 is prohibited. The burden of proof to show that an application for a permit or permit revision is not being submitted as a phase of a larger project shall be upon the applicant.

[SIP Rule 220 §302.2] [Rule 100 §200.70] [Rule 241 §§303, 314]

b. The emergency engines shall not be used for peak shaving. The emergency engines shall only be used for the following purposes:

i. For power when normal power service fails from the serving utility or if onsite electrical transmission or onsite power generation equipment fails;

ii. Reliability-related activities such as engine readiness, calibration, or maintenance or to prevent the occurrence of an unsafe condition during electrical system maintenance as long as the total number of hours of the operation does not exceed 80 hours per calendar year per engine as evidenced by an installed non- resetting hour meter.

iii. Emergency pumping of water resulting from a flood, fire, lightning strikes, police action or for any other essential public services which affect the public health and safety.

[SIP Rule 220 §302.2] [Rule 324 §104] [SIP Rule 324 §104]

c. Each Caterpillar 3516E engine shall be equipped with the following emission control systems:

i. A selective catalytic reduction (SCR) to reduce NOx emissions;

ii. A diesel particulate filter (DPF) to reduce PM emissions from the engine exhaust.

[SIP Rule 220 §302.2]

3. Operation and Maintenance (O & M) Plan Requirements:

a. Unless an O&M Plan has been previously submitted and approved, the Permittee shall submit an approvable

O&M Plan for the following devices within 45 days of the initial issuance of this permit, or within 45 days of the equipment receiving exhaust, in accordance with the Department guidelines:

i. Each selective catalytic reduction (SCR) system to reduce NOx;

ii. Each diesel particulate filter (DPF) to reduce PM emissions from the engine exhaust.

b. The O&M Plan shall specify key system operating parameters, such as temperatures, pressures and/or flow rates, necessary to determine compliance and describe in detail procedures to maintain the approved emission control system. The Permittee shall monitor, operate and maintain the equipment in accordance with the device's approved O&M Plan. At a minimum the plan shall include:

i. Visible emissions;

ii. Temperature at which dosing occurs;

iii. SCR and DPF replacement frequencies; and

iv. Pre-catalyst temperature, post-catalyst temperature and catalyst pressure drop.

c. O&M Plans shall be submitted through the AQD Online Portal. If the AQD Online Portal is not accessible, the Permittee may use alternative means of submittal (such as certified mail, facsimile, email or hand delivery).

d. Changes to an existing O&M Plan shall be made by submitting a complete, revised O&M Plan along with a cover letter identifying all changes and the reason for such changes. The Permittee may implement the changes addressed in the revised O&M plan after it submits the revision to the Control Officer. Unless disapproved in writing by the Control Officer, the Permittee shall continue to operate in accordance with the revised O&M plan.

e. If any control device is found to be operating outside a specified range, the Permittee shall immediately take corrective action to bring the device back into the specified operating range or shut down the device and the associated equipment vented to it.

f. If a pattern of excursions, as determined by the Control Officer or the Permittee, of operation outside the specified operating range develops, the Permittee shall submit to the Control Officer for approval a Corrective Action Plan to bring the devices back into the specified operating range. The Plan shall be submitted to the Control Officer, Attn: Compliance Manager, within 30 days of the determination of the existence of excursions.

[SIP Rule 220 §302.4]

4. Fuel Requirements:

Only the following fuel types shall be used in the stationary engines:

a. Fuel oil that contains no more than 0.0015% sulfur by weight, alone or in combination with other fuels.

[Rule 324 §301.1] [SIP Rule 324 §301.1] [40 CFR §§60.4207(b), 1090.305(b)]

5. Non-Resetting Totalizing Hour Meter:

a. The Permittee shall install and operate a non-resetting totalizing hour meter for each stationary engine.

b. If the non-resetting totalizing hour meter is found to be malfunctioning, the Permittee shall:

i. Record hours of operation daily until the function of the hour meter is restored; and

ii. Restore the function of the hour meter within two weeks. If it is not possible to restore the function of the hour meter within two weeks, the Permittee shall notify the Control Officer in writing and provide a schedule for restoration of the function of the hour meter.

[Rule 324 §306] [SIP Rule 324 §308] [40 CFR §60.4209]

6. Opacity:

a. The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity, except as specified in Permit Condition 7.c.

b. Compliance with visible emissions shall be determined using the techniques specified in EPA Reference Method 9, 40 CFR Part 60, Appendix A.

[Rule 324 §§303, 503.8] [SIP Rule 324 §§303, 503.8]

7. NSPS Subpart IIII Requirements:

a. The following engines shall be certified by the manufacturer to meet the specified EPA emission standard and shall comply with all requirements of this Permit Condition:

Engine Model	Rated BHP	Number of Engines	EPA Emission Standard
Caterpillar 3516C	3,633	8	Tier 2
Caterpillar 3516E with SCR and DPF	4,393	14	Tier 2

b. Additional Fuel Limitation:
The Permittee shall only use diesel fuel that has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR §§60.4207(b), 1090.305(c)]

c. Additional Opacity Standard:
For 2007 model year and later engines, the Permittee shall not allow exhaust opacity to exceed 15% during the lugging mode. This restriction does not apply to engines designated fire pump engines. Opacity levels are to be measured and calculated as set forth in 40 CFR part 86, subpart I.

[40 CFR §§60.4205, 60.4202, 1039.105, 1039.501(c)]

d. The Permittee shall operate and maintain each engine according to the manufacturer's written instructions over the entire life of the engine.

[Rule 324 §302] [40 CFR §§60.4211(a)(1), 60.4206]

e. The Permittee shall only change those engine settings that are permitted by the manufacturer.

[40 CFR §60.4211(a)(2)]

f. The Permittee shall meet the applicable requirements of 40 CFR 1068, including but not limited to the following:

i. Defeat Device: The Permittee shall not equip any engine with a defeat device.

ii. Tampering: The Permittee shall not remove or render inoperative any device or element of design installed on or in an engine in compliance with the regulations, except as allowed under 40 CFR 1068.101(b)(1)

[40 CFR §60.4211(a)(3), 1068.101]

8. Emission Calculations:
Emissions from the Caterpillar 3516E Engines equipped with SCR and DPF shall be calculated as follows:

a. The Permittee shall track controlled and uncontrolled operation time. For the purpose of this Permit Condition, emissions of NOx and CO shall be considered uncontrolled until the temperature at which the dosing occurs.

i. Uncontrolled emission calculations: Uncontrolled emissions shall be calculated using the engine manufacturer's specified emission factors with no emission reductions provided by add-on controls.

ii. Controlled emission calculations: Prior to emissions testing required by Permit Condition 9, the Permittee shall calculate controlled emissions using the estimates provided by the add-on control manufacturer. Following the emissions test, controlled emissions shall be calculated using the results of the test.

[SIP Rule 220 §302.2]

9. Performance Test Requirements:

a. Emission Verification for Caterpillar 3516E Engines equipped with SCR and DPF: The Permittee shall either:

i. Certify the Caterpillar 3516E Engines equipped with SCR and DPF meet EPA Tier 4 Standards; or

ii. Conduct a one-time performance test on any one of the 14 Caterpillar 3516E engines equipped with SCR and DPF chosen by the Department as a representative sample within 60 days after the issuance date of Permit #P0008702 or within 60 days after the new applicable equipment has achieved the capability to operate at its maximum production rate on a sustained basis, whichever occurs last. The testing deadline may be extended by the Control Officer for good cause, but in no case shall the testing deadline, including test report submittal, extend beyond 180 days after the permit issuance date or 180 days after the new applicable equipment has achieved the capability to operate at its maximum capacity, whichever occurs last.

iii. The test shall verify:

1) The temperature at which the SCR dosing occurs.

2) The engine has achieved the required controlled emission rate of NOx and CO during the time the dosing temperature occurs.

3) The engine meets the following required controlled emission rate of NOx and CO at the load listed below:

Pollutant	Emission Factor[1] (lb/hr)
	100% Load
NOx	3.27
CO	0.58

[1]Emission factors calculated using potential site variation emission rates for the Caterpillar 3516E model and assumes the SCR/DPF system achieves the manufacturer's maximum stated reduction of 95%.

If the Control Officer waives the performance test requirement due to a temporary suspension of operations in accordance with Rule 270, Section 402.4 (SIP Rule 27, Section B.4.), the permittee must apply for a permit revision in accordance with Rule 220, Section 405. The permittee must also provide advance notification that the existing performance test requirement may not be met. These submittals must include a detailed description of the circumstances / reasons for the request and must be submitted immediately upon realizing the circumstances that necessitated the revision.

[SIP Rule 220 §302.2] [SIP Rule 200 § 310.1] [Rule 270 § 401] [SIP Rule 27 § A]

b. Specific Test Requirements:

i. The Permittee shall continuously record the engine exhaust temperature during the performance test.

ii. The Permittee shall continuously record the dosing temperature during the performance test.

iii. The Permittee shall measure the NOx and CO concentrations in the exhaust steam to demonstrate compliance with emission limits of these Permit Conditions.

iv. NOx testing shall be conducted in accordance with EPA Test Method 7E.

v. CO testing shall be conducted in accordance with EPA Test Method 10.

[Rule 270 § 401] [Locally Enforceable Only]

c. Testing Criteria: Performance tests shall be conducted and data reduced in accordance with the test methods and procedures specified in the Test Methods section of this permit condition unless otherwise specified by the Control Officer and/or Administrator. The Control Officer and/or Administrator may specify or approve minor changes in methodology to a reference method, approve the use of an equivalent test method, approve the use of an alternative method that has been determined to be acceptable for demonstrating compliance, or waive the requirement for performance tests because the Permittee has demonstrated by other

means that the source is in compliance with the standard. For NSPS facilities, only EPA has the authority to waive initial testing requirements.

[Rule 270 § 402] [SIP Rule 27 § B] [40 CFR 60.8(b)]

d. Test Methods: Sampling sites and velocity traverse points shall be selected in accordance with EPA Test Method 1or 1A. The gas volumetric flow rate shall be measured in accordance with EPA Test Method 2, 2A, 2C, 2D, 2F, 2G or 19. The dry molecular weight shall be determined in accordance with EPA Test Method 3, 3A or 3B. The stack gas moisture shall be determined in accordance with EPA Test Method 4. These methods must be performed, as applicable, during each test run.

[Rule 270 §§ 301.1, 301.2] [SIP Rule 27 § B]

e. Operating Conditions: Performance tests shall be conducted under representative operating conditions and all equipment shall be operated during testing in accordance with the most recently approved O&M Plan or according to its operations manual if no O&M Plan is required. The Permittee shall make available to the Control Officer any records necessary to determine appropriate conditions for performance tests. Operations during periods of startup, shutdown, and equipment malfunction shall not constitute representative conditions for performance tests unless otherwise specified in the applicable standard or permit conditions.

[Rule 270 § 403] [40 CFR 60.8(c)]

f. Monitoring Requirements: The Permittee shall record all process and control equipment information that are necessary to document operating conditions during the test and explain why the conditions represent normal operation. Operational parameters shall be monitored and recorded at least once every 30 minutes during each of the required test runs and documented in the test report. The operational parameters monitored shall be capable of indicating that the equipment is operating within the permitted limits, both during and after the performance tests.

[Rule 270 § 301.1] [SIP Rule 27 § B] [40 CFR 60.8(d)]

g. Test Protocol Submittal: The Permittee shall submit a separate test protocol for each performance test to the Control Officer for review and approval at least 30 days prior to each performance test unless otherwise specified in the applicable standard or in this permit. The test protocol shall be prepared in accordance with the most recent version of the department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the department's "Test Protocol Submittal Form" shall accompany each test protocol. Test protocol(s) shall be submitted through the AQD Online Portal. If the AQD Online Portal is not accessible, please contact the Control Officer for alternative means of submittal.

[Rule 270 § 301.1] [SIP Rule 27 § B]

h. Chain of Custody: The chain of custody procedures in ASTM D4840-99 "Standard Guide for Sampling Chain-of-Custody Procedures" shall be followed for all samples.

[Rule 270 § 402] [SIP Rule 27 § B]

i. Sample Handling: Procedures in ASTM D6911-15 "Standard Guide for Packaging and Shipping Environmental Samples for Laboratory Analysis" (incorporated by reference-see 40 CFR 60.17) shall be followed for all samples, where appropriate.

[Rule 270 § 402] [SIP Rule 27 § B]

j. Notice of Testing: The Permittee shall notify the Control Officer in writing at least two weeks in advance of the actual date and time of each performance test unless otherwise specified in the applicable standard or in this permit so that the Control Officer may have a representative attend.

[Rule 270 § 404] [40 CFR 60.8(e)]

k. Testing Facilities Required: The Permittee shall install any and all sample ports or platforms necessary to conduct the performance tests, provide safe access to any platforms, and provide the necessary utilities for testing equipment.

[Rule 270 § 405] [SIP Rule 42] [40 CFR 60.8(f)]

l. Minimum Testing Requirements: Each performance test shall consist of three separate test runs with each test run being at least one hour in duration unless otherwise specified in the applicable standard or in this permit. The same test methods shall be used simultaneously for both the inlet and outlet measurements, if applicable, or justification for any necessary exceptions shall be provided in the test protocol. Emissions rates,

concentrations, grain loadings, and/or efficiencies shall be determined as the arithmetic average of the values determined for each individual test run. Performance tests may only be stopped for good cause, which 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 a performance test without good cause after the first test run has commenced shall constitute a failure of the performance test.

[Rule 270 § 406] [Locally Enforceable Only] [40 CFR 60.8(f)]

m. Test Report Submittal: The Permittee shall complete and submit a separate test report for each performance test to the Control Officer within 30 days after the completion of testing unless otherwise specified in the applicable standard or in this permit. The test report shall be prepared in accordance with the most recent version of the department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the department's "Test Report Submittal Form" shall accompany each test report. Test reports(s) shall be submitted through the AQD Online Portal. If the AQD Online Portal is not accessible, please contact the Control Officer for alternative means of submittal.

[Rule 270 § 301.1] [SIP Rule 27 § B]

n. Compliance with Emission Limits: Compliance with allowable emission limits and standards shall be determined by the performance tests specified in this permit. If test results do not demonstrate compliance with the requirements of these permit conditions, the Permittee shall make the necessary repairs and/or adjustments to the equipment and demonstrate compliance through retesting. This will not nullify the fact that test results did not demonstrate compliance with the requirements of the permit conditions or nullify any violations that may result from this noncompliance. In addition to compliance demonstrations, test results shall be used for annual emissions inventory purposes if the Permittee is required to complete an emissions inventory survey.

[Rule 270 § 407] [Locally Enforceable Only]

o. Correspondence: All test extension requests, test protocols, test date notifications, and test reports required by this permit shall be submitted through the AQD Online Portal.

[Rule 270 § 301.1] [SIP Rule 27 § B]

p. Authority: The above testing requirements represent the minimum level of testing to monitor for compliance with the emission limits in this permit. Nothing in this section shall prevent the Control Officer from requiring additional performance testing as deemed necessary to ensure permit compliance and protection of the public health and welfare.

[SIP Rule 200 § 309] [Rule 270 § 402.5]

10. Recordkeeping:

a. The Permittee shall maintain the following records for a period of at least five years from the date of the records and make them available to the Control Officer upon request:

i. A list of all stationary engines that includes all of the following information for each stationary engine: combustion type (compression-ignition, or lean-burn spark-ignition, or rich-burn spark-ignition); manufacturer; model designation, rated bhp, serial number, and the location of each engine at the facility. If the equipment list associated with the current permit includes all of the required information for each stationary engine, this requirement may be fulfilled by keeping a complete copy of the current permit, including the equipment list, in a readily accessible location at the facility where the engines are located.

[Rule 324 §502.1] [SIP Rule 324 §502.1]

ii. Monthly rolling twelve-month total of hours of operation, including:

1) Monthly and annual hours of operation for reliability related activities such as engine readiness, calibration, or maintenance, or to prevent the occurrence of an unsafe condition during electrical system maintenance; and

2) The number of operating hours for emergency use and an explanation for the emergency use.

[Rule 324 §502.2] [SIP Rule 324 §502.4]

iii. Monitoring and maintenance records specified in the O&M Plan:

1) Monitoring Records shall consist of an operations log sheet to be completed for every day the

process and/or control device is in operation. Operations log sheets shall, at a minimum, contain the following information: equipment identification; date and time of readings; identification of the individual recording the data; operating parameters to be monitored including units of measure, operating limits (upper and lower limits), and locations for recording measurements; measurement frequency; and if applicable, corrective action taken. An explanation shall be recorded for any periods of operation when the control device was not operating.

2) Maintenance Records shall, at a minimum, contain the following information: equipment identification; date; identification of the individual performing the maintenance check; procedures to be performed including frequency of occurrence; results of inspection (acceptable, nozzle plugged, belt cracked, etc.); and corrective action taken (none, cleaned nozzle, replaced belt, etc.).

iv. Whenever the O&M Plan requires that maintenance be performed, a record shall be made of the maintenance actions taken within 24 hours of maintenance completion.

v. An explanation shall be recorded for any scheduled maintenance that is not performed during the period designated in the O&M Plan.

vi. The O&M Plan shall be updated once a dosing temperature has been established during the performance tests.

[SIP Rule 220 §302.7]

vii. For each instance in which a Caterpillar 3516E Engine equipped with SCR and DPF is operated, the Permittee shall monitor and record:

1) The engine exhaust temperature;

2) The total time the engine is operated; and

3) The amount of time the engine is operated before dosing occurs.

viii. Fuel type and sulfur content of fuel.

[Rule 324 §502.4] [SIP Rule 324 §502.4(b)] [40 CFR §60.4214(b)]

ix. Fuel-Sulfur Verification:

1) Diesel: One of the following documents listing the accurate sulfur content of the fuel based on enforceable test methods as approved by the Administrator to determine the sulfur content:

a) Fuel receipts

b) Contract specifications

c) Pipeline meter tickets

d) Fuel supplier information

e) Purchase records; or

f) Test results of the fuel for sulfur content.

[Rule 324 §501.5][SIP Rule 324 §501.3]

x. Maintenance records of all stationary engines, including:

1) The date when maintenance was performed;

2) The maintenance procedures that were performed and corresponding hours on the hour meter; and

3) One of the following documents, as applicable, which shall be available at all times at the facility where the stationary engine is located:

a) The manufacturer's written instructions for operation and maintenance;

b) A written maintenance schedule provided by the manufacturer's authorized service provider; or

b. The Permittee shall maintain a copy of the manufacturer's data for each engine listed in Permit Condition 7 indicating compliance with the standards in this Permit.

[SIP Rule 220 §302.7][40 CFR §60.4211(b)(3)]

c. Records of the 12-month rolling total emissions, as required by Permit Condition 1.b.

[SIP Rule 220 § 302.2] [SIP Rule 241 §§ 304, 305, 308]

11. Emergency Provisions:

The Permittee shall comply with all recordkeeping and reporting requirements of Rule 130 (Emergency Provisions) and Rule 140 (Excess Emissions) if the allowable hours of operation are exceeded.

[Rule 130; Rule 140]

FUGITIVE DUST FROM DUST-GENERATING OPERATIONS

12. Applicability:

a. The provisions of this Permit Section apply to all dust-generating operations except for those dust-generating operations listed in the Condition below. Any person engaged in a dust-generating operation subject to this Permit Section shall be subject to the standards and/or requirements of this Permit Section before, after, and while conducting such dust-generating operation, including during weekends, after work hours, and on holidays.

b. For the purpose of Rule 310, any control measure that is implemented must achieve the applicable standard(s) described in Rule 310, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in Rule 310.

c. Regardless of whether a dust-generating operation is in compliance with an approved Dust Control Plan or there is no approved Dust Control Plan, the owner and/or operator of a dust-generating operation shall be subject to all requirements of Rule 310 at all times.

d. Failure to comply with the provisions of these requirements, as applicable, and/or of an approved Dust Control Plan, shall constitute a violation.

[SIP Rule 310 §§102, 301]

13. Exemptions:

The provisions of this Permit Section shall not apply to the following activities:

a. Emergency activities that may disturb the soil conducted by any utility or government agency in order to prevent public injury or to restore critical utilities to functional status.

b. Establishing of initial landscapes without the use of mechanized equipment or conducting landscape maintenance without the use of mechanized equipment. However, establishing initial landscapes without the use of mechanized equipment and conducting landscape maintenance without the use of mechanized equipment shall not include grading or trenching performed to establish initial landscapes or to redesign existing landscapes.

[SIP Rule 310 §103]

14. Co-location

The Permittee shall not co-locate any crushing & screening, hot mix asphalt plant and/or concrete batch facilities with the equipment covered by this permit as documented in the equipment list. Co-located sources are those located on contiguous or adjacent properties, which are under common control of the Permittee.

[SIP Rule 100 §200.27]

15. Dust Control Plan Requirements:

a. The owner and/or operator of a dust-generating operation shall submit to the Control Officer a Dust Control Plan with any permit applications that involve dust-generating operations with a disturbed surface area that equals or exceeds 0.10 acre (4,356 square feet) before commencing any routine dust-generating operation. The Dust Control Plan shall be kept available onsite at all times.

b. The Permittee shall comply with the requirements of the Dust Control Plan and the provisions of MCAQD Rule 310 Sections 301 – 310 at all times.

[SIP Rule 310 §§ 301-310, 409]

16. Visible Emission Requirements for Dust-Generating Operations:

a. The Permittee shall not cause or allow visible fugitive dust emissions to exceed 20% opacity.

b. The Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust, beyond the property line within which the emissions are generated. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined by using EPA Reference Method 22. This requirement does not apply to dust-generating operations conducted within 25 feet of the property line.

[SIP Rule 310 §303.1]

17. Exemptions from Dust-Generating Operation Opacity Limitation Requirement:

a. If wind conditions cause fugitive dust emissions to exceed the opacity requirements in this permit, despite implementation of the Dust Control Plan, an owner and/or operator shall:

i. Ensure that all control measures and requirements of the Dust Control Plan are implemented and the subject violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.

ii. Cease dust-generating operations and stabilize any disturbed surface area consistent with the Stabilization Requirements of these conditions.

iii. Compile records consistent with the recordkeeping requirements of these Permit Conditions and document the control measure and other Dust Control Plan requirements implemented.

b. Emergency Maintenance of Flood Control Channels and Water Retention Basins: The opacity limit shall not apply to emergency maintenance of flood control channels and water retention basins, provided that control measures are implemented.

[SIP Rule 310 §303.2]

18. Stabilization Requirements for Dust-Generating Operations:

a. Unpaved Parking Lot: The owner and/or operator of any unpaved parking lot shall not allow visible fugitive dust emissions to exceed 20% opacity and shall not allow silt loading equal to or greater than 0.33 oz/ft^2. However, if silt loading is equal to or greater than 0.33 oz/ft^2, then the owner and/or operator shall not allow the silt content to exceed 8%. An unpaved parking lot includes any area that is not paved and that is used for parking, maneuvering, material handling, or storing motor vehicles and equipment

[SIP Rule 310 §§ 232, 304.1]

b. Unpaved Haul/Access Road:
An unpaved haul/access road includes any on-site road or equipment path that is not paved and is used by commercial, industrial, institutional, and/or governmental traffic.

i. The owner and/or operator of any unpaved haul/access road (whether at a work site that is under construction or at a work site that is temporarily or permanently inactive) shall not allow visible fugitive dust emissions to exceed 20% opacity and shall not allow silt loading equal to or greater than 0.33 oz/ft^2. However, if silt loading is equal to or greater than 0.33 oz/ft^2, then the owner and/or operator shall not allow the silt content to exceed 6%.

ii. The owner and/or operator of any unpaved haul/access road (including at a work site that is under construction or a work site that is temporarily or permanently inactive) shall, as an alternative to meeting the stabilization requirements for an unpaved haul/access road in Subsection [18.b.i] of this Condition, limit vehicle trips to no more than 20 per day per road and limit vehicle speeds to no more than 15 miles per hour. If complying with this subsection of this Permit, the owner and/or operator must include, in a Dust Control Plan, the maximum number of vehicle trips on the unpaved haul/access roads each day (including number of employee vehicles, earthmoving equipment, haul trucks, and water trucks) and a description of how vehicle speeds will be restricted to no more than 15 miles per hour.

[SIP Rule 310 §304.2]

c. Disturbed Surface Area: The owner and/or operator of any disturbed surface area on which no activity is occurring (including at a work site that is under construction or a work site that is temporarily or permanently

inactive) shall meet at least one of the standards described below, as applicable. Should such a disturbed surface area contain more than one type of stabilization characteristic, such as soil, vegetation, or other characteristic, which is visibly distinguishable, then the owner and/or operator shall test each representative surface separately for stability, in an area that represents a random portion of the overall disturbed conditions of the site, in accordance with the appropriate test methods described in Section 501.2(c) of Rule 310 and in Appendix C (Fugitive Dust Test Methods) of MCAQD rules. The owner and/or operator of such disturbed surface area on which no activity is occurring shall be considered in violation of Rule 310 if the area is not maintained in a manner that meets at least one of the standards listed below, as applicable. An area is considered to be a disturbed surface area until the activity that caused the disturbance has been completed and the disturbed surface area meets the standards described in this subsection.

i. Maintain a soil crust;

ii. Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher;

iii. Maintain a flat vegetative cover (i.e., attached (rooted) vegetation or unattached vegetative debris lying on the surface with a predominant horizontal orientation that is not subject to movement by wind) that is equal to at least 50%;

iv. Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%;

v. Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 10% and where the threshold friction velocity is equal to or greater than 43 cm/second when corrected for non-erodible elements;

vi. Maintain a percent cover that is equal to or greater than 10% for non-erodible elements; or

vii. Comply with a standard of an alternative test method, upon obtaining the written approval from the Control Officer and the Administrator.

[SIP Rule 310 §304.3]

19. Soil Moisture:

If water is the chosen control measure in an approved Dust Control Plan, the owner and/or operator of a dust-generating operation shall operate a water application system on-site (e.g., water truck, water hose) while conducting any earthmoving operations on disturbed surface areas 1 acre or larger, unless a soil crust is maintained or the soil is sufficiently damp to prevent loose grains of soil from becoming dislodged.

[SIP Rule 310 §307]

20. Dust Control Training Classes for Dust-Generating Operations:

a. At least once every three years, the following people shall successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

i. Water truck drivers.

ii. Water-pull drivers.

iii. The site superintendent or other designated on-site representative of the permit holder.

b. Any certification issued to a person having successfully completed a Basic Dust Control Training Class conducted or approved by the Control Officer may be suspended or revoked for cause, including, but not limited to, inappropriate ethical activities or conduct associated with the dust control program.

[SIP Rule 310 §309.1]

21. Dust Control Plan Revisions

a. If the Control Officer determines that an approved Dust Control Plan has been followed, yet fugitive dust emissions from any dust-generating operation still exceed the standards of this Permit, the Control Officer shall issue a written notice to the owner and/or operator of the dust-generating operation explaining such determination. The owner and/or operator of a dust-generating operation shall make written revisions to the Dust Control Plan and shall submit such revised Dust Control Plan to the Control Officer within three

working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon request, for good cause. During the time that such owner and/or operator is preparing revisions to the approved Dust Control Plan, such owner and/or operator must still comply with all requirements of this Permit.

[SIP Rule 310 §403.1]

b. The Permittee shall request a Dust Control Plan revision with a submittal in the manner and form prescribed by the Control Officer if:

i. The acreage of a project changes;

ii. The permit holder changes;

iii. The name(s), address(es), or phone numbers of person(s) responsible for the submittal and implementation of the Dust Control Plan and responsible for the dust-generating operation change; and

iv. If the activities related to the purposes for which the Dust Control permit was obtained change.

[SIP Rule 310 §403.2]

22. Recordkeeping:

The Permittee shall maintain the following records for the time period specified in Condition 23 and make them available to the Control Officer upon request:

a. The Permittee shall keep a written record of self-inspection on each day dust-generating operations are conducted. Self-inspection records shall include daily inspections for crusted or damp soil, trackout conditions and clean-up measures, daily water usage, and dust suppressant application. Such written record shall also include the following information:

i. Method, frequency, and intensity of application or implementation of the control measures;

ii. Method, frequency, and amount of water application to the site;

iii. Street sweeping frequency;

iv. Types of surface treatments applied to and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps;

v. Types and results of test methods conducted;

vi. If contingency control measures are implemented, actual application or implementation of contingency control measures and why contingency control measures were implemented;

vii. List of subcontractors' names and registration numbers updated when changes are made; and

viii. Names of employee(s) who successfully completed dust control training class(es), date of the class(es) that such employee(s) successfully completed, and name of the agency/representative who conducted such class(es).

[SIP Rule 310 §502.1]

b. Upon verbal or written request by the Control Officer, the log or the records and supporting documentation shall be provided as soon as possible but no later than 48 hours after the request, excluding weekends. If the Control Officer is at the site where requested records are kept, records shall be provided without delay.

[SIP Rule 310 §§502.3]

23. Records Retention:

The Permittee shall retain copies of approved Dust Control Plans, control measures implementation records, and all supporting documentation for at least six months following the termination of the dust-generating operation and for at least two years from the date such records were initiated.

[SIP Rule 310 §503]

GENERAL CONDITIONS

24. Posting of Permit:

This Permit shall be posted in a clearly visible and accessible location on the site where the equipment is installed.

[SIP Rule 200 §312]

25. Compliance:

a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.

[SIP Rule 200 §§309, 310.3][SIP Rule 220 §406.3]

b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.

[SIP Rule 200 §310.4][SIP Rule 220 §302.24][A.A.C. R18-2-306.A.8.a]

c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.

[SIP Rule 220 §302.10][A.A.C. R18-2-306.A.8.b]

d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[SIP Rule 220 §302.12]

e. Fees: The Permittee shall pay all fees to the Control Officer in accordance with Rule 280. No permit or permit revision is valid until the applicable permit fee has been received and until the permit is issued by the Control Officer.

[SIP Rule 200 §409][Rule 280 §302][A.R.S. 49-480(D)][SIP Rule 28]

26. Malfunctions, Emergency Upsets, and Excess Emissions:

An affirmative defense of an emergency, excess emission, and/or during startup and shutdown shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence as outlined in Rule 130 for emergencies and Rule 140 for excess emissions.

[Rule 130 §§201, 400][Rule 140 §§400, 500][SIP Rule 140]

27. Revision / Reopening / Revocation:

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, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

[SIP Rule 220 §302.11]

28. Records:

a. The Permittee shall furnish information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. The information shall be provided in a timeframe specified by the Control Officer. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.

[SIP Rule 220 §302.13][SIP Rule 40]

b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

[SIP Rule 220 §§301.5, 301.6]

29. Right to Entry:

a. The Control Officer during reasonable hours, for the purpose of enforcing and administering County or SIP Rules or the Clean Air Act, or any provision of the Arizona Revised Statutes relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under A.R.S. 49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.

b. The Permittee shall allow the Control Officer or his designated representatives, upon presentation of proper credentials (e.g., Maricopa County Air Quality Department identification) and other documents as may be required by law, to:

i. Enter upon the Permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept pursuant to the conditions of the permit;

ii. Have access to and copy, at reasonable times, any records that are required to be kept pursuant to the conditions of the permit;

iii. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;

iv. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the Permit or other applicable requirements; and

v. Record any inspection by use of written, electronic, magnetic, and photographic media.

[SIP Rule 100 §105][SIP Rule 220 §302.17-21]

30. Severability:

The rules, paragraphs, clauses, provisions, and/or sections of this Permit are severable, and, if any rule, paragraph, clause, provision, and/or section of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

[SIP Rule 220 §302.9]

EQUIPMENT LIST

Emission Units

AQD ID	Description	Emissions Unit Type	Operating Status	Quantity
ENG001	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG002	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG003	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG004	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG005	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG006	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG007	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG008	Emergency Generator Diesel; Caterpillar 3516C, Manufactured July 1, 2017; Projected Installment on 8/1/18	Engine	Operating	1
ENG009	Caterpillar / 3516E / with SCR and DPF / Mfg. August 1, 2021	Engine	Not Yet Installed	14