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May 21, 2014

Tyler Smith Rock Solid Materials, Inc. PO Box 2416 Havre, MT 59501

Dear Mr. Smith:

Montana Air Quality Permit #4196-01 is deemed final as of May 21, 2014, by the Department of Environmental Quality (Department). This permit is for a portable concrete batch plant located in the S½ of Section 26, Township 33 North, Range 16 East in Hill County, Montana. All conditions of the Department's Decision remain the same. Enclosed is a copy of your permit with the final date indicated.

For the Department,

Julie A Merkel

Julie A. Merkel Air Permitting Supervisor Air Resources Management Bureau (406) 444-3626

JM:DF Enclosure

Deanne Fischer, P.E. Environmental Engineer Air Resources Management Bureau (406) 444-3403

Montana Department of Environmental Quality Permitting and Compliance Division

Montana Air Quality Permit #4196-01

Rock Solid Materials, Inc. PO Box 2416 Havre, MT 59501

May 21, 2014



MONTANA AIR QUALITY PERMIT

Issued To: Rock Solid Materials, Inc. P.O. Box 2416 Havre, MT 59501 MAQP #4196-01 Administrative Amendment (AA) Request Received: 04/11/2014 Department's Decision on AA: 05/05/2014 Permit Final: 05/21/2014 AFS # 777-4196

A Montana Air Quality Permit (MAQP), with conditions, is hereby granted to Rock Solid Materials, Inc. (Rock), pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

Section I: Permitted Facilities

A. Plant Location:

Rock operates a portable concrete batch plant initially located in the S¹/₂ of Section 26, Township 33 North, Range 16 East in Hill County. MAQP #4196-01 will apply while operating at any location in Montana, except within those areas having a Department of Environmental Quality (Department)-approved permitting program, areas considered tribal lands, or areas in or within 10 kilometers (km) of certain particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County, Montana*. An addendum will be required for locations in or within 10 km of certain PM₁₀ nonattainment areas. A complete list of equipment is included in Section I.A. of the Permit Analysis.

B. Current Permit Action

On April 11, 2014, the Department received a request to transfer ownership from Rock Solid Enterprises, Inc. to Rock Solid Materials, Inc. The current permit action is an administrative amendment pursuant to ARM 17.8.764 that changes the permittee name as requested. In addition to accounting for this transfer of ownership, the permit updates the rule references and permit format.

Section II: Conditions and Limitations

- A. Emission Limitations
 - 1. Rock shall install, operate, and maintain the fabric filter dust collector and all other emission control equipment, including a rubber boot load-out spout (or equivalent) as specified in MAQP # 4196-01 (ARM 17.8.752):
 - a. Rock shall install, operate, and maintain the fabric filter dust collector on the cement silo and cement supplement silo; and
 - b. Rock shall install, operate, and maintain a rubber boot load-out spout on every product load-out opening at the plant.

- 2. Rock shall not cause or authorize to be discharged into the atmosphere from the plant:
 - a. Any vent emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304 and ARM 17.8.752); and
 - b. Any fugitive emissions from the source or from any material transfer points, including but not limited to, truck loading or unloading, which exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 and ARM 17.8.752).
- 3. Water and spray bars shall be available on-site at all times and operated as necessary to maintain compliance with the opacity limitations in Sections II.A.2 (ARM 17.8.749 and ARM 17.8.752).
- 4. Rock shall not cause or authorize to be discharged into the atmosphere from any street, road, or parking lot any visible fugitive emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes and must take reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308 and ARM 17.8.752).
- 5. Rock shall treat all unpaved portions of haul roads, access roads, parking lots, or the general plant area with water and/or chemical dust suppressant, as necessary, to maintain compliance with the reasonable precautions limitation in Section II.A.4. (ARM 17.8.749 and ARM 17.8.752).
- 6. Total plant production shall be limited to 1,752,000 cubic yards of concrete during any rolling 12-month time period (ARM 17.8.749).
- 7. If the permitted equipment is used in conjunction with any other equipment owned or operated by Rock, at the same site, production shall be limited to correspond with an emission level that does not exceed 250 tons during any rolling 12-month period. Any calculation used to establish production levels, shall be approved by the Department (ARM 17.8.749).
- B. Emissions Monitoring
 - 1. Rock shall inspect each baghouse, associated vents, and collection system, which are used for controlling emissions from the cement storage silos and the batch plant, at least every 6 months of operation, to ensure that each dust collection system is operating at the optimum efficiency recommended by the manufacturer. Records of inspections, repairs, and maintenance shall be kept for a minimum of 5 years (ARM 17.8.749).
 - 2. Rock shall maintain on-site records of inspections, repairs, and maintenance. All records compiled in accordance with this permit shall be maintained by Rock as a permanent business record for at least 5 years following the date of measurement, shall be submitted to the Department upon request, and shall be available at the plant for inspection by the Department (ARM 17.8.749).

- C. Testing Requirements
 - 1. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
 - 2. The Department may require further testing (ARM 17.8.105).
- D. Operational Reporting Requirements
 - 1. If the plant is moved to another location, an Intent to Transfer form must be sent to the Department and a Public Notice Form for Change of Location must be published in a newspaper of general circulation in the area to which the transfer is to be made, at least 15 days prior to the move. The proof of publication (affidavit) of the Public Notice Form for Change of Location must be submitted to the Department prior to the move. These forms are available from the Department (ARM 17.8.749 and ARM 17.8.765).
 - 2. Rock shall maintain on-site records showing daily hours of operation and daily production rates for the last 12 months. The records compiled in accordance with this permit shall be maintained by Rock as a permanent business record for at least five years following the date of the measurement, must be available at the plant for inspection by the Department, and must be submitted to the Department upon request (ARM 17.8.749).
 - 3. Rock shall supply the Department with annual production information for all emissions points, as required by the Department in the annual emissions inventory request. The request will include, but is not limited to, all sources of emissions identified in the emissions inventory of the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in the units required by the Department. This information may be used for calculating operating fees, and/or to verify compliance with permit limitations (ARM 17.8.505).

- 4. Rock shall notify the Department of any construction or improvement project conducted pursuant to ARM 17.8.745, that would include *the addition of a new emissions unit*, change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation. The notice must be submitted to the Department, in writing, 10 days prior to startup or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1)(d) (ARM 17.8.745).
- 5. Rock shall document, by month, the total concrete plant production. By the 25th day of each month, Rock shall total the concrete plant production from the facility for the previous month. The monthly information will be used to demonstrate compliance with the rolling 12-month limitation in Section II.A.6. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).

Section III: General Conditions

- A. Inspection Rock shall allow the Department's representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment (continuous emissions monitoring system (CEMS) or continuous emissions rate monitoring system (CERMS)) or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if Rock fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations Nothing in this permit shall be construed as relieving Rock of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided for in ARM 17.8.740, *et seq.* (ARM 17.8.756).
- D. Enforcement Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties, or other enforcement action, as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals Any person or persons jointly or severally adversely affected by the Department's decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department's decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA. The issuance of a stay on a permit by the Board postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the Department's decision on the application is final 16 days after the Department's decision is made.
- F. Permit Inspection As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by the Department at the location of the permitted source.
- G. Air Quality Operation Fees Pursuant to Section 75-2-220, MCA, failure to pay the annual operation fee by Rock may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Duration of Permit Construction or installation must begin or contractual obligations entered into that would constitute substantial loss, within three years of permit issuance and proceed with due diligence until the project is complete or the permit shall expire (ARM 17.8.762).
- I. The Department may modify the conditions of this permit based on local conditions of any future site. These factors may include, but are not limited to, local terrain, meteorological conditions, proximity to residences, etc.
- J. Rock shall comply with the conditions contained in this permit while operating in any location in Montana, except within those areas that have a Department-approved permitting program or areas considered tribal lands.

Montana Air Quality Permit (MAQP) Analysis Rock Solid Materials, Inc. MAQP #4196-01

I. Introduction/Process Description

A. Permitted Equipment

Rock Solid Materials, Inc. (Rock) owns and operates a portable concrete batch plant consisting of the following equipment:

- Four compartment aggregate bins;
- One cement silos and associated fabric filter(s);
- One cement supplement silo with associated fabric filter;
- Concrete batch plant (maximum production rate up to 200 cubic yards per hour (yd^{3/}hr));
- Conveyors, batcher, hopper, and other associated equipment (emissions are controlled by a dust collection system, rubber boot at load out, and water).

B. Source Description

For a typical operation, aggregate is delivered to the site and stockpiled for use at the batch plant. The cement silos transfer cement, or cement supplement into the batch plant along with the aggregate (sand and gravel) and water. The combined mixture is loaded into a truck where all materials are mixed together to form concrete. The concrete is transported and used at various construction operations.

The proposed initial location for the facility under this permit is in the S ¹/₂ of Section 26, Township 33 North, Range 16 East in Hill County, Montana. MAQP #4196-01 will apply to the source while operating at any location in Montana, except within those areas having a Department-approved permitting program, those areas considered tribal lands, or those areas in or within 10 kilometers (km) of certain particulate matter with an aerodynamic diameter of 10 microns or less (PM10) nonattainment areas. A Missoula County air quality permit will be required for locations within Missoula County, Montana. An addendum to this air quality permit will be required if Rock intends to locate in or within 10 kilometers (km) of certain PM10 nonattainment areas.

C. Permit History

The facility was previously permitted in a different location under MAQP #3252-00 as a portable concrete batch plant. The concrete batch plant moved from the original permitted location and remained in this location for more than one year. Pursuant to Administrative Rules of Montana (ARM) 17.8.765, the plant can only operate in the new location for less than one year. In an effort to avoid potential on-going compliance issues, the facility requested the Department revoke the original permit, and Rock Solid Enterprises, Inc. (Rock) applied for a new permit in the new location (home pit).

On January 28, 2008, Rock submitted a completed permit application to operate the concrete batch plant, to be operated in various locations throughout the state of Montana. On April 10, 2008, the Department issued **MAQP #4196-00**.

D. Current Permit Action

On April 11, 2014, the Department received a request to transfer ownership from Rock Solid Enterprises, Inc. to Rock Solid Materials, Inc. The current permit action is an administrative amendment pursuant to the Administrative Rules of Montana (ARM) 17.8.764 that transfers ownership as requested. In addition to accounting for this transfer of ownership, the permit updates the rule references and the permit format. **MAQP #4196-01** replaces MAQP **#4196-00**.

E. Additional Information

Additional information, such as applicable rules and regulations, Best Available Control Technology (BACT)/Reasonably Available Control Technology (RACT) determinations, air quality impacts, and environmental assessments, is included in the analysis associated with each change to the permit.

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the ARM and are available, upon request, from the Department. Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations where appropriate.

- A. ARM 17.8, Subchapter 1 General Provisions, including, but not limited to:
 - 1. <u>ARM 17.8.101 Definitions</u>. This rule includes a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 - 2. <u>ARM 17.8.105 Testing Requirements</u>. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.
 - 3. <u>ARM 17.8.106 Source Testing Protocol</u>. The requirements of this rule apply to any emission source testing conducted by the Department, any source, or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

Rock shall comply with the requirements contained in the Montana Source Test Protocol and Procedures Manual, including but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. <u>ARM 17.8.110 Malfunctions</u>. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation, or to continue for a period greater than four hours.

- 5. <u>ARM 17.8.111 Circumvention</u>. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction of the total amount of air contaminant emitted, conceals, or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner as to create a public nuisance.
- B. ARM 17.8, Subchapter 2 Ambient Air Quality, including, but not limited to:
 - 1. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
 - 2. ARM 17.8.221 Ambient Air Quality Standard for Visibility
 - 3. <u>ARM 17.8.223 Ambient Air Quality Standard for PM₁₀</u>

Rock must maintain compliance with the applicable ambient air quality standards.

- C. ARM 17.8, Subchapter 3 Emission Standards, including, but not limited to:
 - 1. <u>ARM 17.8.304 Visible Air Contaminants</u>. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
 - 2. <u>ARM 17.8.308 Particulate Matter, Airborne</u>. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter (PM). (2) Under this rule, Rock shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter.
 - 3. <u>ARM 17.8.309 Particulate Matter, Fuel Burning Equipment</u>. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this section.
 - 4. <u>ARM 17.8.310 Particulate Matter, Industrial Processes</u>. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter in excess of the amount set forth in this section.
 - 5. <u>ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel</u>. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this section.
 - 6. <u>ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products</u>. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank truck or trailer is equipped with a vapor loss control device as described in (1) of this rule.
 - ARM 17.8.340 Standard of Performance for New Stationary Sources and <u>Emission Guidelines for Existing Sources</u>. This rule incorporates, by reference, 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS). This facility is not an NSPS affected source because it does not meet the definition of any NSPS subpart defined in 40 CFR Part 60.

- 8. <u>ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source</u> <u>Categories</u>. This rule incorporates, by reference, 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories. This facility is not a NESHAP-affected source because it does not meet the definition of any NESHAPs Subpart defined in 40 CFR Part 63.
- D. ARM 17.8, Subchapter 5 Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:
 - 1. <u>ARM 17.8.504 Air Quality Permit Application Fees</u>. This rule requires that an applicant submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. A permit fee is not required for the current permit action because the permit action is considered an administrative permit change.
 - 2. <u>ARM 17.8.505 Air Quality Operation Fees</u>. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit, excluding an open burning permit, issued by the Department.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that pro-rate the required fee amount.

- E. ARM 17.8, Subchapter 7 Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:
 - 1. <u>ARM 17.8.740 Definitions</u>. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 - 2. <u>ARM 17.8.743 Montana Air Quality Permits--When Required</u>. This rule requires a person to obtain an air quality permit or permit modification to construct, modify, or use any concrete batch plant, crusher, or screen that has the Potential to Emit (PTE) greater than 15 tons per year of any pollutant. Rock has a PTE greater than 15 tons per year of PM and particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀); therefore, an air quality permit is required.
 - 3. <u>ARM 17.8.744 Montana Air Quality Permits--General Exclusions</u>. This rule identifies the activities that are not subject to the Montana Air Quality Permit program.
 - 4. <u>ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis</u> <u>Changes</u>. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.

- 5. <u>ARM 17.8.748 New or Modified Emitting Units--Permit Application</u> <u>Requirements</u>. This rule requires that a permit application be submitted prior to installation, modification or use of a source. A permit application was not required for the current permit action because the permit change is considered an administrative permit change. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. An affidavit of publication of public notice was not required for the current permit action because the permit change is considered an administrative permit change.
- 6. <u>ARM 17.8.749 Conditions for Issuance or Denial of Permit</u>. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
- 7. <u>ARM 17.8.752 Emission Control Requirements</u>. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. The required BACT analysis is included in Section III of this permit analysis.
- 8. <u>ARM 17.8.755 Inspection of Permit</u>. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.
- 9. <u>ARM 17.8.756 Compliance with Other Requirements</u>. This rule states that nothing in the permit shall be construed as relieving Rock of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq*.
- 10. <u>ARM 17.8.759 Review of Permit Applications</u>. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
- 11. <u>ARM 17.8.762 Duration of Permit</u>. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or modified source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than one year after the permit is issued.
- 12. <u>ARM 17.8.763 Revocation of Permit</u>. An air quality permit may be revoked upon written request of the permittee, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
- 13. <u>ARM 17.8.764 Administrative Amendment to Permit</u>. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those

changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits, unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.

- 14. <u>ARM 17.8.765 Transfer of Permit</u>. (1) This rule states that an air quality permit may be transferred from one location to another if the Department receives a complete notice of intent to transfer location, the facility will operate in the new location for less than one year, the facility will comply with the FCAA and the Clean Air Act of Montana, and the facility complies with other applicable rules. (2) This rule states that an air quality permit may be transferred from one person to another if written notice of intent to transfer, including the names of the transferor and the transferee, is sent to the Department.
- F. ARM 17.8, Subchapter 8 Prevention of Significant Deterioration of Air Quality, including, but not limited to:
 - 1. <u>ARM 17.8.801 Definitions</u>. This rule is a list of applicable definitions used in this subchapter.
 - 2. <u>ARM 17.8.818 Review of Major Stationary Sources and Major Modifications --</u> <u>Source Applicability and Exemptions</u>. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

This facility is not a major stationary source because it is not a listed source and the facility's PTE is less than 250 tons per year (excluding fugitive emissions) of any air pollutant.

- G. ARM 17.8, Subchapter 12 Operating Permit Program Applicability, including, but not limited to:
 - 1. <u>ARM 17.8.1201 Definitions</u>. (23) Major Source under Section 7412 of the FCAA is defined as any stationary source having:
 - a. PTE > 100 tons/year of any pollutant;
 - b. $PTE > 10 \text{ tons/year of any one hazardous air pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule; or$
 - c. PTE > 70 tons/year of PM_{10} in a serious PM_{10} nonattainment area.
 - <u>ARM 17.8.1204 Air Quality Operating Permit Program Applicability</u>. (1) Title V of the FCAA Amendments of 1990 requires that all sources, as defined in ARM 17.8.1204 (1), obtain a Title V Operating Permit. In reviewing and issuing MAQP #4196-01 for Rock, the following conclusions were made:
 - a. The facility's PTE is less than 100 tons/year for any pollutant.

- b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year of all HAPs.
- c. This source is not located in a serious PM_{10} nonattainment area.
- d. This facility is not subject to current NSPS standards.
- e. This facility is not subject to any current NESHAP standards.
- f. This source is not a Title IV affected source.
- g. This source is not a solid waste combustion unit.
- h. This source is not an EPA designated Title V source.

Based on these facts, the Department has determined that Rock will be a minor source of emissions as defined under Title V.

III. BACT Determination

A BACT determination was not required for the current permit action because the permit change is considered an administrative permit change.

IV.	Emission Inventory
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Source	Tons/year (TPY)					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
Concrete Batch Plant						
Haul Roads	12.68	3.60				
Aggregate delivery to ground storage	5.61	2.72				
Sand delivery to ground storage	1.31	0.61				
Aggregate transfer to conveyor	5.61	2.72				
Sand transfer to conveyor	1.31	0.61				
Aggregate transfer to elevated storage	5.61	2.72				
Sand transfer to elevated storage	1.31	0.61				
Cement delivery to silo	0.18	0.09				
Cement supplement delivery to silo	0.26	0.18				
Weigh hopper loading	6.92	3.33				
Truck Mix loading	34.53	9.72				
Total	75.34	26.91				

Haul Roads Vehicle miles traveled:	5 VMT/day	{Estimated}	
PM Emissions: PM Emission Factor (Rated Load Capacit	ty <50 tons):	13.90 Lbs/VM	IT (AP-42, Section 13.2.2, 12/03)
PM= (5 VMT/day)(13.90 Lbs/VM PM= 69.5 Lbs/day* 24 hrs/day*		69.50 Lbs/da 12.68 tons/yr	y
PM10 Emissions: PM10 Emission Factor (Rated Load Capa	acity <50 tons):	3.95 Lbs/VM	IT (AP-42, Section 13.2.2, 12/03)
PM10= (5 VMT/day)(3.95 Lbs/VM PM10= 19.75 Lbs/day* 24 hrs/day		19.75 Lbs/da 3.60 tons/yr	y
Aggregate Delivery to Ground Sto Process Rate:	<u>prage</u> 200 yd^3/hr		
Hours of operation:	8760 hr/yr		
PM Emissions:			
Emission Factor: Calculations:	0.0064 lbs/yd^3 0.0064 lbs/yd^3 * 200 yd^3/hi 1.28 lbs/hr * 8760 hr/yr* 0.000		5, 6/2006) 1.28 lbs/hr 5.61 tons/yr
PM-10 Emissions:			
Emission Factor: Calculations:	0.0031 lbs/yd^3 0.0031 lbs/yd^3 * 200 yd^3/hi 0.62 lbs/hr * 8760 hr/yr* 0.000		5, 6/2006) 0.62 lbs/hr 2.72 tons/yr
Sand Delivery to Ground Storage Process Rate:	200 yd^3/hr		
Hours of operation:	8760 hr/yr		
PM Emissions:			
Emission Factor: Calculations:	0.0015 lbs/yd^3 0.0015 lbs/yd^3 * 200 yd^3/hi 0.3 lbs/hr * 8760 hr/yr* 0.009		5, 6/2006) 0.30 lbs/hr 1.31 tons/yr
PM-10 Emissions:			
Emission Factor: Calculations:	0.0007 lbs/yd^3 0.0007 lbs/yd^3 * 200 yd^3/hi 0.14 lbs/hr * 8760 hr/yr* 0.000		5, 6/2006) 0.14 lbs/hr 0.61 tons/yr
Aggregate transfer to Conveyor			
Process Rate: Hours of operation:	200 yd^3/hr 8760 hr/yr		
PM Emissions:			
Emission Factor: Calculations:	0.0064 lbs/yd^3 0.0064 lbs/yd^3 * 200 yd^3/hi 1.28 lbs/hr * 8760 hr/yr* 0.00		5, 6/2006) 1.28 lbs/hr 5.61 tons/yr
PM-10 Emissions:			
Emission Factor: Calculations:	0.0031 lbs/yd^3 0.0031 lbs/yd^3 * 200 yd^3/hi 0.62 lbs/hr * 8760 hr/yr* 0.000		5, 6/2006) 0.62 lbs/hr 2.72 tons/yr

Sand Transfer to Conveyor		
Process Rate:	200 yd^3/hr	
Hours of operation:	8760 hr/yr	
PM Emissions:		
Emission Factor: Calculations:	0.0015 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0015 lbs/yd^3 * 200 yd^3/hr = 0.3 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.30 lbs/hr 1.31 tons/yr
PM-10 Emissions:		
Emission Factor: Calculations:	0.0007 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0007 lbs/yd^3 * 200 yd^3/hr = 0.14 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.14 lbs/hr 0.61 tons/yr
Aggregate transfer to Elevated Stor	rage	
Process Rate: Hours of operation:	200 yd^3/hr 8760 hr/yr	
PM Emissions:		
Emission Factor: Calculations:	0.0064 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0064 lbs/yd^3 * 200 yd^3/hr = 1.28 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	1.28 lbs/hr 5.61 tons/yr
PM-10 Emissions:		
Emission Factor: Calculations:	0.0031 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0031 lbs/yd^3 * 200 yd^3/hr = 0.62 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.62 lbs/hr 2.72 tons/yr
Sand Transfer to Elevated Storage Process Rate: Hours of operation:	200 yd^3/hr 8760 hr/yr	
PM Emissions:		
Emission Factor: Calculations:	0.0015 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0015 lbs/yd^3 * 200 yd^3/hr = 0.3 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.30 lbs/hr 1.31 tons/yr
PM-10 Emissions:		
Emission Factor: Calculations:	0.0007 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0007 lbs/yd^3 * 200 yd^3/hr = 0.14 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.14 lbs/hr 0.61 tons/yr
Cement Delivery to Silo Process Rate: Hours of operation:	200 yd^3/hr 8760 hr/yr	
PM Emissions:		
Emission Factor: Calculations:	0.0002 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0002 lbs/yd^3 * 200 yd^3/hr = 0.04 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.04 lbs/hr 0.18 tons/yr
PM-10 Emissions:		
Emission Factor: Calculations:	0.0001 lbs/yd^3 (AP-42, Table 11.12-5, 6/2006) 0.0001 lbs/yd^3 * 200 yd^3/hr = 0.02 lbs/hr * 8760 hr/yr* 0.0005 tons/lb =	0.02 lbs/hr 0.09 tons/yr

<u>Cement Supplement Delive</u>	ry to Silo
Process Rate: Hours of operation:	200 yd^3/hr 8760 hrs/yr
	8760 HIS/9
PM Emissions:	
Emission Factor: Calculations:	0.0003 lbs/yd^3 Cartridge Dust control (AP-42, Table 11.12-5, 6/2006) 0.0003 lbs/yd^3 * 200 yd^3/hr = 0.06 lbs/hr 0.06 lbs/yr * 0.0005 tons/lb = 0.26 tons/yr
PM-10 Emissions:	
Emission Factor: Calculations:	0.0002 lbs/yd^3 Cartridge Dust control (AP-42, Table 11.12-5, 6/2006) 0.0002 lbs/yd^3 * 200 yd/3/hr = 0.04 lbs/hr 0.04 lbs/hr * 8760 * 0.0005 tons/lb = 0.18 tons/yr
Weigh Hopper Loading	
Process Rate:	200 yd^3/hr
Hours of operation:	8760 hr/yr
PM Emissions:	
Emission Factor: Calculations:	0.0079 lbs/yd^3 Controlled (AP-42, Table 11.12-5, 6/2006) 0.0079 lbs/yd^3 * 200 yd^3/hr = 1.58 lbs/hr 1.58 lbs/hr * 8760 hr/yr* 0.0005 tons/lb = 6.92 tons/yr
PM-10 Emissions:	
Emission Factor: Calculations:	0.0038 lbs/yd^3 Controlled (AP-42, Table 11.12-5, 6/2006) 0.0038 lbs/yd^3 * 200 yd^3/hr = 0.76 lbs/hr 0.76 lbs/hr * 8760 hr/yr* 0.0005 tons/lb = 3.33 tons/yr
Truck Mix Loading	
Process Rate: Hours of operation:	200 yd^3/hr 8760 hr/yr
PM Emissions:	
Emission Factor:	0.0173 lbs/ton controlled (AP-42, Table 11.12-2, 6/2006) 0.03942 lbs/vd^3
Calculations:	0.03942 lbs/yd^3 * 200 yd^3/hr = 7.88 lbs/hr 7.884 lbs/hr * 8760 hr/yr* 0.0005 tons/lb = 34.53 tons/yr
PM-10 Emissions:	
Emission Factor:	0.0048 lbs/ton controlled (AP-42, Table 11.12-2, 6/2006) 0.0111 lbs/yd^3
Calculations:	0.0111 lbs/yd^3 * 200 yd^3/hr = 2.22 lbs/hr 2.22 lbs/hr * 8760 hr/yr* 0.0005 tons/lb = 9.72 tons/yr

V. Existing Air Quality

MAQP #4196-01 is issued for the operation of a portable wash plant facility to initially be located in the S¹/₂ of Section 26, Township 33 North, Range 16 East in Hill County, and in those areas for which this facility is permitted to operate, have been designated unclassified/attainment with all ambient air quality standards, and where there are no major air pollution sources in the surrounding area. Also, this facility is a portable source that would operate on an intermittent and temporary basis and any effects to air quality will be minor and short-lived.

VI. Air Quality Impacts

The Department determined that there will be no impacts from this permitting action because this permitting action is considered an administrative action. Therefore, the Department believes this action will not cause or contribute to a violation of any ambient air quality standard.

VII. Ambient Air Impact Analysis

Based on the information provided and the conditions established in MAQP #4196-01, the Department determined that there will be no impacts from this permitting action. The Department believes it will not cause or contribute to a violation of any ambient air quality standard.

VIII. Taking or Damaging Implication Analysis

As required by 2-10-105, MCA, the Department conducted the following private property taking and damaging assessment.

YES	NO	
		1. Does the action pertain to land or water management or environmental regulation affecting
		private real property or water rights?
	Х	2. Does the action result in either a permanent or indefinite physical occupation of private
А	Λ	property?
	Х	3. Does the action deny a fundamental attribute of ownership? (ex.: right to exclude others,
Δ		disposal of property)
	Х	4. Does the action deprive the owner of all economically viable uses of the property?
X		5. Does the action require a property owner to dedicate a portion of property or to grant an
		easement? [If no, go to (6)].
		5a. Is there a reasonable, specific connection between the government requirement and legitimate
		state interests?
		5b. Is the government requirement roughly proportional to the impact of the proposed use of the
		property?
	Х	6. Does the action have a severe impact on the value of the property? (consider economic impact,
		investment-backed expectations, character of government action)
	Х	7. Does the action damage the property by causing some physical disturbance with respect to the
		property in excess of that sustained by the public generally?
	Х	7a. Is the impact of government action direct, peculiar, and significant?
	Х	7b. Has government action resulted in the property becoming practically inaccessible,
		waterlogged or flooded?
	Х	7c. Has government action lowered property values by more than 30% and necessitated the
		physical taking of adjacent property or property across a public way from the property in question?
	Х	Takings or damaging implications? (Taking or damaging implications exist if YES is checked in
		response to question 1 and also to any one or more of the following questions: 2, 3, 4, 6, 7a, 7b,
		7c; or if NO is checked in response to questions 5a or 5b; the shaded areas)

Based on this analysis, the Department determined there are no taking or damaging implications associated with this permit action.

IX. Environmental Assessment

This permitting action will not result in an increase of emissions from the facility and is considered an administrative action; therefore, an environmental assessment is not required.

Analysis Prepared By: Deanne Fischer Date: April 23, 2014