

Brian Schweitzer, Governor

P. O. Box 200901 Helena, MT 59620-0901

001 (406) 444-2544

Website: www.deq.mt.gov

July 22, 2009

Jerry Denney P.O. Box 170 Belfry, MT 59008

Dear Mr. Denney:

Montana Air Quality Permit #4425-00 is deemed final as of July 22, 2009, by the Department of Environmental Quality (Department). This permit is for a portable crushing and screening operation. 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,

Vickie Walsh

Vickie Walsh Air Permitting Program Supervisor Air Resources Management Bureau (406) 444-9741

Show Co

Shawn Juers Environmental Engineer Air Resources Management Bureau (406) 444-2049

VW:SJ Enclosure Montana Department of Environmental Quality Permitting and Compliance Division

Montana Air Quality Permit #4425-00

Jerry Denney P.O Box 170 Belfry, MT 59008

July 22, 2009



MONTANA AIR QUALITY PERMIT

Issued To: Jerry Denny P.O. Box 170 Belfry, MT 59008 MAQP: #4425-00 Application Complete: 6/4/2009 Preliminary Determination Issued: 6/18/2009 Department's Decision Issued: 7/6/2009 Permit Final: 7/22/2009 AFS #: 777-4425

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

SECTION I: Permitted Facilities

A. Permitted Equipment

Jerry Denney proposes to operate a portable crushing and screening facility consisting of a 1995 Eagle Primary Impact Crusher, 1995 Eagle 2 deck screen, a 275 horsepower (hp) John Deere Diesel generator engine, two conveyors, and associated equipment. The equipment was purchased as a package plant and has a 200 ton per hour (TPH) maximum rated capacity.

B. Plant Location

Jerry Denney will operate the crushing and screening facility at various locations throughout Montana. MAQP #4425-00 would apply while operating at any location in Montana, except 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.

SECTION II: Conditions and Limitations

- A. Emission Limitations
 - 1. Jerry Denney shall not cause or authorize to be discharged from any Standards of Performance for New Stationary Source (NSPS)-affected crusher an opacity of 15% or greater averaged over 6 consecutive minutes (ARM 17.8.340, ARM 17.8.752, and 40 CFR 60, Subpart OOO).
 - 2. Jerry Denney shall not cause or authorize to be discharged from any other NSPSaffected equipment, such as screens or conveyor transfer points, an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.340, ARM 17.8.752, and 40 CFR 60, Subpart OOO).
 - 3. Jerry Denney shall not cause or authorize to be discharged from any non-NSPS affected equipment an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).

- 4. 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.1, II.A.2, and II.A.3 (ARM 17.8.752).
- 5. Jerry Denney 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 (ARM 17.8.308).
- 6. Jerry Denney shall treat all unpaved portions of the 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.5 (ARM 17.8.749).
- 7. Jerry Denney shall not operate more than one crusher at any given time and the maximum rated capacity of the crusher shall not exceed 200 TPH (ARM 17.8.749).
- 8. Jerry Denney shall not operate more than one screen and one feeder screen at any given time and the maximum rated capacity of each screen shall not exceed 200 TPH (ARM 17.8.749).
- 9. Jerry Denney shall not operate more than one diesel engine/generator at any given time and the diesel engine/generator shall be limited to a total of 275 hp (ARM 17.8.749).
- 10. If the permitted equipment is used in conjunction with any other equipment owned or operated by Jerry Denney, 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 calculations used to establish production levels shall be approved by the Department of Environmental Quality (Department) (ARM 17.8.749).
- 11. Jerry Denney shall comply with all applicable standards and limitations, and the reporting, recordkeeping, testing, and notification requirements contained in 40 CFR 60, Subpart OOO, *Standards of Performance for Nonmetallic Mineral Processing Plants* (ARM 17.8.340 and 40 CFR 60, Subpart OOO).
- 12. Jerry Denney shall comply with all applicable standards and limitations, and the reporting, recordkeeping, and notification requirements contained in 40 CFR 60, Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* and 40 CFR 63, Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, for any applicable diesel engine (ARM 17.8.340; 40 CFR 60, Subpart IIII; ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).
- B. Testing Requirements
 - 1. Within 60 days after achieving maximum production, but no later than 180 days after initial start-up, an Environmental Protection Agency (EPA) Method 9 opacity test and/or other methods and procedures as specified in 40 CFR 60.675 must be performed on all NSPS affected equipment to demonstrate compliance with the emission limitations contained in Section II.A.1 and II.A.2 (ARM 17.8.340 and 40 CFR 60, Subpart A and Subpart OOO).

- 2. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
- 3. The Department may require further testing (ARM 17.8.105).
- C. Operational Reporting Requirements
 - 1. If this portable crushing and screening facility 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 17.8.765).
 - 2. Jerry Denney shall maintain on-site records showing daily hours of operation and daily production rates for the last 12 months. All records compiled in accordance with this permit shall be maintained by Jerry Denny as a permanent business record for at least 5 years following the date of the measurement, must be submitted to the Department upon request, and must be available at the site for inspection by the Department (ARM 17.8.749).
 - 3. Jerry Denney shall supply the Department with annual production information for all emission points, as required by the Department in the annual emission inventory request. The request will include, but is not limited to, all sources of emissions identified in the emission inventory contained in the permit analysis and all sources of emissions identified in the most recent emission inventory report.

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, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

4. Jerry Denney 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).

SECTION III: General Conditions

A. Inspection –Jerry Denney 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 (CEMS, 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 Jerry Denney fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations Nothing in this permit shall be construed as relieving Jerry Denney 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 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 Department personnel at the location of the permitted source.
- G. Permit Fee Pursuant to Section 75-2-220, MCA, failure to pay the annual operation fee by Jerry Denney 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 3 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. Jerry Denney 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.

Permit Analysis Jerry Denney Montana Air Quality Permit #4425-00

I. Introduction/Process Description

A. Permitted Equipment

Jerry Denney proposes to operate a portable crushing and screening package plant consisting of a 1995 Eagle Primary Impact Crusher, a 1995 two deck screen, a 275 horsepower (hp) John Deere diesel engine/generator, and associated equipment including two conveyors. The maximum rated capacity of the package plant is 200 TPH.

B. Source Description

Jerry Denney proposes to operate this crushing and screening plant, using the equipment described above, to crush rock into specific sized gravel. For a typical operational setup, unprocessed material is loaded into a vibrating feeder which directly transfers the material to the crusher. Crushed product material is conveyed from the crusher to the screen for sorting. Finished product is deposited onto finished material stock piles. The process equipment is a package plant, and the maximum capacity is rated for 200 (TPH), with an expected average process rate of 160 TPH. The permittee will utilize a diesel engine rated for 275 hp for the diesel engine/generator.

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 Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for location of complete copies of all applicable rules and regulations or copies 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).

Jerry Denney 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 4 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. <u>ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide</u>
 - 2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
 - 3. <u>ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide</u>
 - 4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
 - 5. ARM 17.8.221 Ambient Air Quality Standard for Visibility
 - 6. <u>ARM 17.8.223 Ambient Air Quality Standard for PM₁₀</u>

Jerry Denney 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. (2) Under this rule, Jerry Denney 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 Process</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.

- <u>ARM 17.8.340 Standard of Performance for New Stationary Sources</u>. This rule incorporates, by reference, 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS). Jerry Denney is considered an NSPS affected facility under 40 CFR Part 60 and is subject to the requirements of the following subparts.
 - a. <u>40 CFR 60, Subpart A General Provisions</u> apply to all equipment or facilities subject to an NSPS Subpart as listed below:
 - b. <u>40 CFR 60, Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants.</u> In order for a crushing plant to be subject to this subpart, the facility must meet the definition of an affected facility and, the affected equipment must have been constructed, reconstructed, or modified after August 31, 1983. Based on the information submitted by Jerry Denney, the portable crushing equipment to be used under Montana Air Quality Permit (MAQP) #4425-00 is subject to this subpart because the crusher and screen was constructed, reconstructed, or modified after August 31, 1983. Other NSPS-affected equipment that may be located at the facility would include any combination of the following: each crusher, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station, which were constructed, reconstructed, or modified after August 31, 1983.
 - c. <u>40 CFR 60, Subpart IIII Standards of Performance for Stationary Compression</u> <u>Ignition (CI) Internal Combustion Engines (ICE)</u> This rule indicates that NSPS requirements apply to owners or operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE is manufactured after April 1, 2005, and is not a fire pump engine. In order to keep the permit de minimisfriendly, this permit authorizes the use of a diesel engine up to 275 hp or less. The permit application states that the facility will be powered primarily by a diesel engine/generator that was manufactured in 1995; therefore, this CI ICE will not be subject to this Subpart. However, should Jerry Denney replace the current engine at a future date with an engine that is manufactured after April 1, 2005, that engine will be subject to the requirements of 40 CFR 60, Subpart IIII.
- 8. <u>ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source Categories.</u> This rule requires that a source, as defined and applied in 40 CFR Part 63, comply with the requirements of 40 CFR part 63.
 - a. <u>40 CFR 63, Subpart A</u> General Provisions apply to all equipment or facilities subject to a National Emission Standard for Hazardous Air Pollutants (NESHAPs) Subpart as listed below:
 - b. 40 CFR 63, Subpart ZZZ NESHAPs for Stationary Reciprocating Internal Combustion Engines (RICE). As an area source, the diesel RICE will be subject to this rule. However, although diesel RICE engines are an affected source, per 40 CFR 63.6590(b)(3) they do not have any requirements unless they are new or reconstructed after June 12, 2006. Any diesel RICE engine operated by Jerry Denney that is new or reconstructed after June 12, 2006, will be subject to this Maximum Available Control Technology (MACT) standard if the engine remains or will remain at the permitted location for more than 12 months, or a shorter period of time for an engine located at a seasonal source. A seasonal source remains at a single location on a permanent basis (at least 2 years) and operates 3 months or more each year. Since the permit is written in a de minimis-friendly manner, area source provisions of the MACT requirements may apply to facility engines.

- 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. Jerry Denney submitted the appropriate permit application fee for the current permit action.
 - 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; the air quality operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

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 a Montana Air Quality Permit or permit modification to construct, modify, or use any asphalt plant, crusher or screen that has the potential to emit (PTE) greater than 15 tons per year of any pollutant. Jerry Denney has a PTE greater than 15 tons per year of oxides of nitrogen (NOx) and particulate matter (PM); therefore, a Montana 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 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 Requirements</u>. (1) This rule requires that a permit application be submitted prior to installation, modification, or use of a source. Jerry Denney submitted the required permit application for the current permit action. (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. Jerry Denney submitted an affidavit of publication of public notice for April 23, 2009, issue of the *Billings Gazette*, a newspaper of general circulation in the Town of Billings in Yellowstone County, as proof of compliance with the public notice requirements.

- 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 Jerry Denney 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>. A Montana 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 1 year after the permit is issued.
- 12. <u>ARM 17.8.763 Revocation of Permit</u>. A Montana 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>. A Montana 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 a Montana 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 1 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 a Montana 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 Modification--Source</u> <u>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 of any pollutant (excluding fugitive emissions).

- 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 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 particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) in a serious PM₁₀ 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 Air Quality Permit #4425-00 for Jerry Denney, 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 subject to NSPS.
 - e. This facility is not subject to any current NESHAP standards.

- f. This source is not a Title IV affected source or a solid waste combustion unit.
- g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that this facility is not subject to the Title V Operating Permit Program. However, in the event that the EPA makes minor sources that are subject to NSPS obtain a Title V Operating Permit, this source will be subject to the Title V Operating Permit Program.

III. BACT Determination

A BACT determination is required for each new or modified source. Jerry Denney shall install on the new or modified source the maximum air pollution control capability which is technically practicable and economically feasible, except that BACT shall be utilized.

A. Fugitive Emissions and Crushing/Screening Emissions

Two types of emissions controls are readily available and used for dust suppression of fugitive emissions at the site, fugitive emissions for the surrounding area of operations, and for equipment emissions from the crushing/screening operation. These two control methods are water and chemical dust suppressant. Chemical dust suppressant could be used on the area surrounding the crushing/screening operation, and for emissions from the crushing/screening operation. However, because water is more readily available, is more cost effective, is equally effective as chemical dust suppressant, and is more environmentally friendly, water has been identified as the most appropriate method of pollution control of particulate emissions for the general plant area. In addition, water suppression has been required of recently permitted similar sources. Jerry Denney may, however, use chemical dust suppressant to assist in controlling particulate emissions from the surrounding plant area.

Jerry Denney shall not cause or authorize to be discharged into the atmosphere from any NSPSaffected crusher, any visible emissions that exhibit an opacity of 15% or greater averaged over 6 consecutive minutes. Also, Jerry Denney shall not cause or authorize to be discharged into the atmosphere from any affected screens, conveyor transfers, or other NSPS-affected equipment, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes. Further, Jerry Denney shall not cause or authorize to be discharged into the atmosphere from any non-NSPS affected equipment, any visible emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.

Jerry Denney must also take reasonable precautions to limit the fugitive emissions of airborne particulate matter from haul roads, access roads, parking areas, and the general area of operation. Jerry Denney is required to have water spray bars and water available on site at all times and to apply the water, as necessary, to maintain compliance with the opacity and reasonable precaution limitations. Jerry Denney may also use chemical dust suppression, in order to maintain compliance with emission limitations. The Department determined that using water spray bars, water, and chemical dust suppressant to maintain compliance with the opacity requirements and reasonable precaution limitations constitutes BACT for the crushing/screening operation.

B. Diesel Engine/Generator

Due to the limited amount of emissions produced by the diesel engine/generator and the lack of readily available, cost effective add-on controls, add-on controls would be cost prohibitive. Therefore, the Department determined that proper operation and maintenance with no add-on controls would constitute BACT for the diesel engine/generator.

In addition, any new diesel engine would be required to comply with the federal engine emission limitations including either EPA Tier 2 emission standards for non-road engines (40 CFR Part 1039) or New Source Performance Standard emission limitations for stationary engines (40 CFR 60, Subpart IIII).

The control options required for the proposed crushing/screening facility are comparable to other recently permitted similar sources, and are capable of achieving the appropriate emission standards.

IV. Emission Inventory

<u>Jerry Denney</u> Emissions Inventory - Controlled

			Tons/Year				
Source	PM	PM-10	NOx	VOC	со	SOx	HAPs
 1995 Eagle 33D5218 Primary Impact Crusher (200 TPł	1.05	0.47					
John Deere 6101HF Diesel Motor (275 hp)	2.65	2.65	37.34	3.01	8.07	2.53	0.03
Transfer Operations (4 transfers)	0.49	0.16					
Pile Forming (1 pile formed)	3.24	1.53					
Bulk Loading (2)	6.48	3.07					
1995 Eagle 1000-15CC 2 Deck Screen (200 TPH)	3.15	1.93					
1995 Grizzly Screen (200 TPH)	3.15	1.93					
Total	13.91	7.88	37.34	3.01	8.07	2.53	

Note: Controlled emissions factors were used as BACT determined water spray control is required and NSPS standards apply.

CRUSHERS - (SCC 3-050030-03, controlled)

CRUSHERS - (SCC 3-050030-0 1995 Eagle 33D5218 Primary I				
Process Rate:	200.0000 tons/hr			
Hours of operation:	8760.0000 hr/yr or		24	hr/day
				, aay
PM Emissions (controlled):				
Emission Factor:		-42 Table 11.19.2-2	,	
Calculations:	0.0012 lbs/ton * 200 tons/h			lbs/hr
	0.24 lbs/hr * 8760 hr/yr * 0.	0005 ton/lb =	1.051	tons/yr
PM-10 Emissions (controlled):				
Emission Factor:	0.00054 lbs/ton (AP	-42 Table 11.19.2-2	8/2004)	
Calculations:	0.00054 lbs/ton * 200 tons/			lbs/hr
	0.108 lbs/hr * 8760 hr/yr * 0			tons/yr
Material Transfer - (SCC 3-05-	020-06, controlled)			
Material Transfer (4 transfers)				
Process Rate:	200.0000 tons/hr			
Number of Transfers	4.0000 Transfers		24	br/dov
Hours of operation:	8760.0000 hr/yr or		24	hr/day
PM Emissions:				
Emission Factor:	0.000140 lbs/ton (AP-	-42 Table 11.19.2-2	2, 8/2004)	
Calculations:	0.00014 lbs/ton * 200 tons/		. ,	lbs/hr
	0.112 lbs/hr * 8760 hr/yr * 0).0005 ton/lb =	0.491	tons/yr
PM-10 Emissions:				
Emission Factor:		-42 Table 11.19.2-2		
Calculations:	0.000046 lbs/ton * 200 tons			lbs/hr
	0.037 lbs/hr * 8760 hr/yr * 0	1.0005 ton/ID =	0.162	tons/yr
Pile Forming (1 Pile) - 50% wa	ter sprav control			
Process Rate:	200.0000 tons/hr			
Hours of operation:	8760.0000 hr/yr or		24	hr/day
	· · · · · · · · · · · · · · · · · · ·			
PM Emissions:				
(<u>U</u>)13	where:			
$E = k(0.0032) \qquad \frac{\left(\frac{U}{5}\right)^{1.3}}{(pound [1])}$	b)/ton) E = emission	factor		
E - K(0.0032) (pound [n)/ton) E = emission k = particle si	ze multiplier (dimension	less) nd (m/s) (miles r	er hour (mph])
E = k(0.0032) $\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$ (pound [I]	b)/ton) E = emission k = particle si U = mean win	factor ize multiplier (dimension id speed, meters per seco noisture content (%)	less) nd (m/s) (miles p	er hour [mph])
E - K(0.0032) (pound [n	b)/ton) E = emission k = particle si U = mean win	ze multiplier (dimension d speed, meters per seco	less) nd (m/s) (miles p for PM	er hour [mph])
E - K(0.0032) (pound [n	b)/ton) E = emission k = particle si U = mean win M = material r	ze multiplier (dimension d speed, meters per seco noisture content (%)	nd (m/s) (miles p	er hour [mph])
E - K(0.0032) (pound [n	a)/ton) E = emission k = particle si U = mean win M = material r k = k = M =	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55	nd (m/s) (miles p for PM for PM10 %	er hour [mph]) average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
E - K(0.0032) (pound [n	a)/ton) E = emission k = particle si U = mean win M = material n k = k =	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35	nd (m/s) (miles p for PM for PM10	
$E = \mathbf{x}(0.0052) \qquad \qquad$	o)ton) E = emission k = particle si U = mean win M = material r k = k = M = U =	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55	nd (m/s) (miles p for PM for PM10 %	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
$E = \mathbf{x}(0.0022) \frac{\mathbf{M}}{\left(\frac{\mathbf{M}}{2}\right)^{1.4}}$ $PM = \mathbf{E} = 0.007$	u)ton) E = emission k = particle si U = mean win M = material n k = k = M = U = 4 lbs/ton	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55	nd (m/s) (miles p for PM for PM10 %	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
$E = \mathbf{x}(0.0022) \frac{\mathbf{M}}{\left(\frac{\mathbf{M}}{2}\right)^{1.4}}$ $PM = \mathbf{E} = 0.007$	o)ton) E = emission k = particle si U = mean win M = material r k = k = M = U =	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55	nd (m/s) (miles p for PM for PM10 %	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
$E = \mathbf{x}(0.0022) \frac{\mathbf{M}}{\left(\frac{\mathbf{M}}{2}\right)^{1.4}}$ $PM = \mathbf{E} = 0.007$	u)ton) E = emission k = particle si U = mean win M = material n k = k = M = U = 4 lbs/ton	ize multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55	nd (m/s) (miles p for PM for PM10 %	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
PM = 0.007 $PM10 = 0.003$	()ton) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material } \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP)$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06)	nd (m/s) (miles p for PM for PM10 %	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b
E = 1000027 (Journa In $\left(\frac{M}{2}\right)^{1.4}$ (Journa In PM E = 0.007 PM10 E = 0.003 PM Emissions:	()ton) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material r} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ \underline{0.0074} \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ \end{pmatrix}$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% =	dd (m/s) (miles p for PM for PM10 % MPH 0.740	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$	()ton) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material } \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP)$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% =	dd (m/s) (miles p for PM for PM10 % MPH 0.740	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$	()ton) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material r} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ \underline{0.0074} \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ \end{pmatrix}$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% =	dd (m/s) (miles p for PM for PM10 % MPH 0.740	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html
PM E = 0.007 PM10 E = 0.003 PM Emissions: Emission Factor: Calculations: PM-10 Emissions:	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material r} \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ \underline{0.0074} \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.0000 \text{ lbs/hr} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.0000000000000000000000000000000000$	ze multiplier (dimension di speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb =	dd (m/s) (miles p for PM for PM10 % MPH 0.740	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$ $PM-10 Emissions:$ $Emission Factor:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material r} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} (AP \\ 0.0035$	ze multiplier (dimension di speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06)	for PM for PM10 % MPH 0.740 3.241	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM E = 0.007 PM10 E = 0.003 PM Emissions: Emission Factor: Calculations: PM-10 Emissions:	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material } \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} (AP \\ 0.0035 \text{ lbs/ton} & 200 \text{ tons/h} \\ 0.0$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$ $PM-10 Emissions:$ $Emission Factor:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material r} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} (AP \\ 0.0035$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$ $PM-10 Emissions:$ $Emission Factor:$ $Calculations:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ \underbrace{0.0074 \text{ lbs/ton}}_{0.0074 \text{ lbs/ton}} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ \underbrace{0.0035 \text{ lbs/ton}}_{0.35 \text{ lbs/ton}} (AP \\ 0.35 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ \end{bmatrix}$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$ $PM-10 Emissions:$ $Emission Factor:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ \underbrace{0.0074 \text{ lbs/ton}}_{0.0074 \text{ lbs/ton}} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ \underbrace{0.0035 \text{ lbs/ton}}_{0.35 \text{ lbs/ton}} (AP \\ 0.35 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ \end{bmatrix}$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions:$ $Emission Factor:$ $Calculations:$ $PM-10 Emissions:$ $Emission Factor:$ $Calculations:$ $Bulk Loading (2) - 50% water of$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ K = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ 0.0035 \text{ lbs/ton} (AP \\ 0.0035 lbs/to$	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $Bulk Loading (2) - 50% water of Process Rate$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ K = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ 0.0035 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.35 \text{ lbs/ton} * 8760 \text{ hr/yr} * 0.1 \\ \text{control} \\ 200.0000 \text{ tons/hr} \\ $	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $Bulk Loading (2) - 50% water of Process Rate$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ K = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0.1 \\ 0.0035 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.35 \text{ lbs/ton} * 8760 \text{ hr/yr} * 0.1 \\ \text{control} \\ 200.0000 \text{ tons/hr} \\ $	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $Bulk Loading (2) - 50% water of Process Rate Hours of operation:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material t} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} & 200 \text{ tons/h} \\ 0.35 \text{ lbs/ton} & 8760 \text{ hr/yr} * 0. \\ \text{control} \\ 200.0000 \text{ tons/hr} \\ 8760.0000 \text{ hr/yr} \\ 8760.0000 \text{ hr/yr} \\ $	ze multiplier (dimension d speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% =	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $Bulk Loading (2) - 50% water of Process Rate Hours of operation:$ $PM Emissions:$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material transmission} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} & 200 \text{ tons/h} \\ 0.35 \text{ lbs/ton} * 8760 \text{ hr/yr} * 0. \\ \text{control} \\ 200.0000 \text{ tons/hr} \\ 8760.0000 \text{ hr/yr} \\ 8760.0000 \text{ hr/yr}$	<pre>ize multiplier (dimension d speed, meters per seco noisture content (%)</pre>	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350 1.533	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
PM = E = 0.007 $PM10 = 0.003$ $PM Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $PM-10 Emissions: Emission Factor: Calculations:$ $Bulk Loading (2) - 50% water of Process Rate Hours of operation:$ $PM Emissions: Emission Factor: Calculations$	(htm) $E = \text{emission} \\ k = \text{particle si} \\ U = \text{mean win} \\ M = \text{material transmission} \\ k = \\ k = \\ M = \\ U = \\ 4 \text{ lbs/ton} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.74 \text{ lbs/hr} * 8760 \text{ hr/yr} * 0. \\ 0.0035 \text{ lbs/ton} * 200 \text{ tons/h} \\ 0.35 \text{ lbs/ton} * 8760 \text{ hr/yr} * 0. \\ \text{control} \\ 200.0000 \text{ tons/hr} \\ 8760.0000 \text{ hr/yr} \\ 0.0074 \text{ lbs/ton} (AP \\ 0.0074 \text{ lbs/ton} $	<pre>ze multiplier (dimension dd speed, meters per seco noisture content (%) 0.74 0.35 1.55 9.10 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% = 0005 tons/lb = 42 13.2.4, 11/06) r * 50% * 2 =</pre>	d (m/s) (miles p for PM for PM10 % MPH 0.740 3.241 0.350 1.533	average moisture content observed in mineral processing: AP-42 table 11.19.2-1 note b statewide average : http://met-www.cit.cornell.edu/ccd/wndspd98.html lbs/hr tons/yr
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<u>Generators - (SCC 2-02-001-02, 2-03-001-01)</u> John Deere 6101HF Diesel Motor (275 hp)

Rated h	p:	275.0000 hp 8760.0000 hrs		
PM Emi	ssions - hP Emissions Factor: Calculations:	0.0022 lb/hp-hr (AP-42 Table 3.3-1, 10/1996 0.0022 lb/hP-hr *275 hP = 0.605 lbs/hr *8760 hrs * 0.0005 tons/lb =	;) 0.605 lb/hr 2.650 tons/yr	
PM-10 E	Emissions	assume all PM emissions are PM10 emissions (AP-	42 Table 3.3-1, 10/1996) 0.605 lb/hr 2.650 tons/yr	
NOx				
- *	Emissions Factor: Calculations:	0.0310 lb/hp-hr (AP-42 Table 3.3-1, 10/1996 0.031 lb/hP-hr *275 hP = 8.525 lbs/hr *8760 hrs * 0.0005 tons/lb =	s) 8.525 lb/hr 37.340 tons/yr	
СО	Emissions Factor: Calculations:	0.0067 lb/hp-hr (AP-42 Table 3.3-1, 10/1996 0.0067 lb/hP-hr *275 hP = 1.843 lbs/hr *8760 hrs * 0.0005 tons/lb =	i) 1.843 lb/hr 8.072 tons/yr	
SO _x	Emissions Factor: Calculations:	<u>0.0021</u> lb/hp-hr (AP-42 Table 3.3-1, 10/1996 0.0021 lb/hP-hr *275 hP = 0.578 lbs/hr *8760 hrs * 0.0005 tons/lb =	i) 0.578 lb/hr 2.532 tons/yr	
			2.332 (013/y)	
VOC	Emissions Factor: Calculations	0.0025 lb/hp-hr (AP-42 Table 3.3-1, 10/1996 0.0025 lb/hp-hr *275 hp = 0.688 lb/hr *8760 hrs * 0.0005 tons/lb =	i) 0.688 lb/hr 3.013 tons/yr	
Total HA	APs Emissions Factor: Conversion Factor Calculations	0.0037 lb/MMBTU (AP-42 Table 3.3-2, 10/1996 7000.0000 BTU/hp-hr (AP-42 Table 3.3-1, 10/1996 7000 BTU/hp-hr *275 hp *0.0037 lb/MMBTU * 10~6 0.007 lb/hr *8760 hr * 0.0005 tons/lb =	5)	0.007 lb/hr 0.031 ton/yr
-	<u>s - (SCC 3-05-020-02, 0</u> nt Screen	03 - Controlled)		
Process Hours of	Rate: f Operation:	200.0000 tons/hr 8760.0000 hrs		
PM Emi	ssions Emissions Factor: Calculations	0.0036 lb/ton (AP-42 Table 11.19.2-2, 8/2004) 0.0036 lb/ton * 200 tons/hr = 0.72 lb/hr * 8760 hr * 0.0005 lb/ton =	0.7200 lb/hr 3.1536 tons/yr	
PM-10 E	Emissions Emissions Factor: Calculations:	0.0022 lb/ton (AP-42 Table 11.19.2-2, 8/2004) 0.0022 lb/ton * 200 tons/hr = 0.44 lb/hr * 8760 hrs * 0.0005 lb/ton =	0.4400 lb/hr 1.9272 tons/yr	
Grizzly	Feeder Screen			
Process Hours of	Rate: f Operation:	200.0000 tons/hr 8760.0000 hrs		
PM Emis	ssions Emissions Factor: Calculations	0.0036 lb/ton (AP-42 Table 11.19.2-2, 8/2004) 0.0036 lb/ton * 200 tons/hr = 0.72 lb/hr * 8760 hr * 0.0005 lb/ton =	0.7200 lb/hr 3.1536 tons/yr	
PM-10 E	Emissions Emissions Factor: Calculations:	0.0022 lb/ton (AP-42 Table 11.19.2-2, 8/2004) 0.0022 lb/ton * 200 tons/hr = 0.44 lb/hr * 8760 hrs * 0.0005 lb/ton =	0.4400 lb/hr 1.9272 tons/yr	
	4425-00	9		F

V. Air Quality Impacts

MAQP #4425-00 is issued for the operation of a portable crushing and screening plant. MAQP #4425-00 will cover the plant while operating at any location within Montana, excluding those counties that have a Department approved permitting program. In the view of the Department, the amount of controlled emissions generated by this facility will not exceed any set ambient standard. In addition, this source is portable and any air quality impacts will be minimal and temporary. The Department determined that the impact from this permitting action will be minor. The Department believes it will not cause or contribute to a violation of any ambient air quality standard.

VI. Ambient Air Impact Analysis

The Department determined that the impact from this permitting action will be minor. The Department believes it will not cause or contribute to a violation of any ambient air quality standard.

VII. 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	
XX		1. Does the action pertain to land or water management or environmental regulation affecting
		private real property or water rights?
	XX	2. Does the action result in either a permanent or indefinite physical occupation of private
		property?
	XX	3. Does the action deny a fundamental attribute of ownership? (ex.: right to exclude others,
		disposal of property)
	XX	4. Does the action deprive the owner of all economically viable uses of the property?
	XX	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?
	XX	6. Does the action have a severe impact on the value of the property? (consider economic
		impact, investment-backed expectations, character of government action)
	XX	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?
	XX	7a. Is the impact of government action direct, peculiar, and significant?
	XX	7b. Has government action resulted in the property becoming practically inaccessible,
		waterlogged or flooded?
	XX	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?
	XX	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

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY Permitting and Compliance Division Air Resources Management Bureau 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901 (406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: Jerry Denney P.O. Box 170 Belfry, MT 59008

Air Quality Permit number: 4425-00

Preliminary Determination Issued: 6/18/2009 Department Decision Issued: 7/6/2009 Permit Final: 7/22/2009

- 1. Legal Description of Site: Jerry Denney submitted an application to operate a portable crushing and screening facility. MAQP #4425-00 would apply while operating at any location in Montana, except those areas considered to be tribal lands, or those areas in or within 10 km of certain PM₁₀ nonattainment areas. An addendum to this permit would be required if Jerry Denney intends to locate in or within 10 km of certain PM₁₀ nonattainment areas. A Missoula County air quality permit would be required for locations within Missoula County, Montana
- 2. *Description of Project*: The Department received a permit application for the operation of a portable crushing and screening facility with a maximum rated throughput of 200 TPHr and diesel engine/generator up to 275 hp. Jerry Denney proposes to operate this plant to crush rock into specific sized gravel.
- 3. *Objectives of Project*: The object of the project would be to produce business and revenue for the company through the sale and use of gravel. The issuance of MAQP #4425-00 would allow Jerry Denney to operate the permitted equipment at various locations throughout Montana.
- 4. *Alternatives Considered*: In addition to the proposed action, the Department also considered the "noaction" alternative. The "no-action" alternative would deny issuance of the MAQP to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because Jerry Denney has demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.
- 5. *A Listing of Mitigation, Stipulations, and Other Controls*: A list of enforceable conditions, including a BACT analysis, would be included in MAQP #4425-00.
- 6. *Regulatory Effects on Private Property*: The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined that the permit conditions would be reasonably necessary to ensure compliance with applicable requirements and to demonstrate compliance with those requirements and do not unduly restrict private property rights.

7. The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The "no-action" alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
А	Terrestrial and Aquatic Life and Habitats			x			Yes
В	Water Quality, Quantity, and Distribution			х			Yes
C	Geology and Soil Quality, Stability and Moisture			х			Yes
D	Vegetation Cover, Quantity, and Quality			х			Yes
Е	Aesthetics			х			Yes
F	Air Quality			х			Yes
G	Unique Endangered, Fragile, or Limited Environmental Resources			х			Yes
Н	Demands on Environmental Resource of Water, Air and Energy			х			Yes
Ι	Historical and Archaeological Sites			х			Yes
J	Cumulative and Secondary Impacts			х			Yes

SUMMARY OF COMMENTS ON POTENTIAL PHYSICAL AND BIOLOGICAL EFFECTS: The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Terrestrials may use the same area as the crushing and screening operation. The proposed project would be considered a minor source of emissions by industrial standards, with intermittent and seasonal operations. Therefore, only minor effects on terrestrial life would be expected as a result from pollutant deposition.

Impacts on aquatic life may result from storm water runoff and pollutant deposition, but such impacts would be minor as the facility would be a minor source of emissions (with seasonal and intermittent operations) and only minor amounts of water would be used for pollution control. Since only a minor amount of air emissions would be generated, only minor deposition would occur. Therefore, only minor and temporary effects to aquatic life and habitat would be expected from the proposed crushing/screening operation.

B. Water Quality, Quantity and Distribution

Water would be required for dust suppression on the surrounding roadways, at areas of operation, and pollution control for equipment operations. However, pollutant deposition and water use would cause minor impacts as the facility would be small with seasonal and intermittent operations and only a small volume of water would be used. Overall, the equipment would be expected to have minor impacts to water quality, quantity, and distribution in the area of operations.

C. Geology and Soil Quality, Stability and Moisture

The facility would be a minor source of emissions by industrial standards and would typically operate in areas previously designated and used for aggregate crushing. Therefore, impacts from the emissions from the crushing facility would be expected to be minor.

The crushing and screening operation would have only minor impacts on soils in any proposed site location because the facility is relatively small in size, would use only relatively small amounts of water for pollution control, and would only have seasonal and intermittent operations. Therefore, any affects upon geology and soil quality, stability, and moisture at any proposed operational site would be expected to be minor.

D. Vegetation Cover, Quantity, and Quality

Because the equipment at the facility would be a minor source of emissions by industrial standards and would typically operate in areas previously designated and used for aggregate crushing, impacts from the emissions from the crushing and screening facility would be minor.

As described in Section 7.F of this EA, the amount of air emissions from this project would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, because the water usage is minimal, as described in Section 7.B, and the associated soil disturbance is minimal, as described in Section 7.C, corresponding vegetative impacts would be minor.

E. Aesthetics

The crushing and screening operation would be visible and would create additional noise while operating in these areas. However, MAQP #4425-00 would include conditions to control emissions, including visible emissions, from the plant. Also, because the crushing and screening operation would be portable, would operate on an intermittent and seasonal basis, and would typically locate within an open-cut pit, any visual and noise impacts would be expected to be minor and short-lived.

F. Air Quality

The air quality impacts from the crushing and screening operations would be minor because the facility would be relatively small. MAQP #4425-00 would include conditions limiting the opacity from the plant, as well as requiring water spray bars and other means to control air pollution. Further, MAQP #4425-00 would limit total emissions from the crushing and screening operation and any additional Jerry Denney equipment operated at the site to 250 tons per year or less, excluding fugitive emissions.

This facility would be used on a temporary and intermittent basis, thereby further reducing potential air quality impacts from the facility. Additionally, the small and intermittent amounts of deposition generated from the crushing/screening operation would be minimal because the pollutants emitted would be well controlled, and would have minimal deposition on the surrounding area. Therefore, air quality impacts would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

MAQP #4425-00 contains conditions requiring this facility to operate according to New Source Performance Standards regardless of location. Compliance with these standards would result in a very small amount of particulate matter emissions on an industrial scale. Because this facility would be small in size and temporary in nature, and would typically operate in previously disturbed areas, any impacts to unique, endangered, fragile, or limited environmental resources would be minor.

H. Demands on Environmental Resource of Water, Air and Energy

Due to the size of the facility, the crushing and screening operation would require only small quantities of water, air, and energy for proper operation. Relatively small quantities of water would be used for dust suppression and would control particulate emissions being generated at the site. Energy requirements would also be small because the energy demands of the crushing and screening operation would be relatively small and the facility would not be used continuously. The facility would be expected to have seasonal and intermittent use. In addition, impacts to air resources would be minor because the source is small by industrial standards, with intermittent and seasonal operations, and because air pollutants generated by the facility would be dispersed. Therefore, any impacts to water, air, and energy resources in any given area would be minor.

I. Historical and Archaeological Sites

According to past correspondence with the Montana State Historic Preservation Office (SHPO), there would be a low likelihood of disturbance to any known archaeological or historic site given that the facility would typically be locating in previously disturbed areas. Therefore, it is unlikely that the project would affect any known historic or archaeological site and any impacts would be minor.

J. Cumulative and Secondary Impacts

The proposed project would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment because the facility would generate emissions of PM and PM10. Noise would also be generated from the site. Emissions and noise would cause minimal disturbance because the equipment is small and the facility would be expected to operate in areas designated and used for such operations. Additionally, this facility, in combination with the other emissions from equipment operations owned by Jerry Denney at the operational site, would not be permitted to exceed 250 tons per year of non-fugitive emissions. Overall, any cumulative or secondary impacts to the physical and biological aspects of the human environment would be minor.

		Major	Moderate	Minor	None	Unknown	Comments Included
Α	Social Structures and Mores			х			Yes
В	Cultural Uniqueness and Diversity			х			Yes
С	Local and State Tax Base and Tax Revenue			х			Yes
D	Agricultural or Industrial Production			х			Yes
Е	Human Health			х			Yes
F	Access to and Quality of Recreational and Wilderness Activities			х			Yes
G	Quantity and Distribution of Employment			х			Yes
Н	Distribution of Population			х			Yes
Ι	Demands for Government Services			х			Yes
J	Industrial and Commercial Activity			х			Yes
К	Locally Adopted Environmental Plans and Goals			х			Yes
L	Cumulative and Secondary Impacts			х			Yes

8. The following table summarizes the potential economic and social effects of the proposed project on the human environment. The "no-action" alternative was discussed previously.

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS: The following comments have been prepared by the Department.

A. Social Structures and Mores

The proposed project would cause only minor disruption to the social structures and mores in the area because the source would be a minor industrial source, and would only have temporary and intermittent operations.

B. Cultural Uniqueness and Diversity

The predominant use of any proposed area would be expected to remain the same. The cultural uniqueness and diversity of any area would have only minor, if any, effects imparted by the operation of this facility. This facility would be portable with seasonal and intermittent operations. Therefore, the cultural uniqueness and diversity of the area would not be expected to be affected. Effects, if any, would be minor.

C. Local and State Tax Base and Tax Revenue

The proposed project would result in minor, if any, impacts to the local and state tax base and tax revenue because the proposed project would require very few employees. In addition, only minor amounts of construction would be required to complete the project, and the facility would be a minor industrial facility with temporary, seasonal, and intermittent operations.

D. Agricultural or Industrial Production

The proposed project would have a minor impact on local industrial production since the facility would increase aggregate production and air emissions slightly. Because minimal deposition of air pollutants would occur on the surrounding land, only minor, if any effects on the surrounding vegetation or agricultural production would occur. In addition, the facility operations would be small and temporary in nature and would be permitted with operational conditions and limitations that would minimize impacts upon surrounding vegetation. The equipment at the facility would be a minor source of emissions and would typically operate in areas previously designated and used for aggregate crushing.

E. Human Health

Conditions would be incorporated into the permit to ensure that the crushing and screening facility would operate in compliance with all applicable air quality rules and standards, including New Source Performance Standards. These rules and standards are designed to be protective of human health. The air emissions from this project would be minimized by the use of water spray. Further, the facility would operate on a temporary, intermittent, and seasonal basis and only minor impacts would be expected on human health from the proposed facility.

F. Access to and Quality of Recreational and Wilderness Activities

This facility would typically be located on previously disturbed property and would not impact access to recreational and wilderness activities. Minor impact on the quality of recreational activities might be created by noise. Air emissions would be minimized as a result of limitations placed in the Montana Air Quality Permit and the temporary and portable nature of the operation.

G. Quantity and Distribution of Employment

This facility would be a small, portable source, with seasonal and intermittent operations and would not be expected to have long-term affects upon the quantity and distribution of employment in any given area of operation.

H. Distribution of Population

The portable crushing and screening operation would be small and temporary in nature with very few employees. Therefore, the facility would be expected to have little, if any impact the normal population distribution in the area of operation or any future operating site.

I. Demands for Government Services

There would be a very small increase in traffic on existing roadways and highways in the area from the proposed project. Government services would be required for acquiring the appropriate permits for the proposed project and to verify compliance with the permits that would be issued. However, demands for government services would be minor.

J. Industrial and Commercial Activity

The proposed project would represent only a minor increase in the industrial activity in the proposed area of operation because the facility would continue to be a small industrial source, and be portable and temporary in nature. Very little additional industrial or commercial activity would be expected as a result of the proposed operation. Therefore, any impacts to the industrial and commercial activity would be minor.

K. Locally Adopted Environmental Plans and Goals

The proposed project would be allowed by a Montana Air Quality Permit to operate in areas designated by EPA as attainment or unclassified for ambient air quality. An addendum would be required to operate in or within 10 kilometers (km) of a PM_{10} nonattainment area. The permit would contain maximum capacity and opacity limits for protecting air quality and to keep facility emissions in compliance with any applicable ambient air quality standards. Because the facility would be small and portable, any impacts from the project would be minor and short-lived.

L. Cumulative and Secondary Impacts

Overall, the proposed project would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate area of operation because the source would continue to be portable, and the footprint of the facility would remain relatively small. Further, no other industrial operations are expected to result from this permitting action. Any increase in traffic would have minor effects on local traffic in the immediate area.

This facility may be operated in conjunction with other equipment owned and operated by Jerry Denney, but properly permitted and operated equipment will ensure any cumulative impacts or secondary impacts would be minor and short-term. In conclusion, the source would be relatively small, the facility emissions would be minimal, and the project would have only minor cumulative and secondary impacts.

Recommendation: No Environmental Impact Statement (EIS) is required.

The current permitting action is for the installation and operation of a portable crushing and screening facility. MAQP #4425-00 includes conditions and limitations to ensure the facility will operate in compliance with all applicable rules and regulations. In addition, there are no significant impacts associated with this proposal.

Other groups or agencies contacted or which may have overlapping jurisdiction: Montana Historical Society – State Historic Preservation Office.

Individuals or groups contributing to this EA: Department of Environmental Quality – Air Resources Management Bureau, and the State Historic Preservation Office.

EA prepared by: Shawn Juers Date: 4/21/2009