AIR QUALITY PERMIT

Issued To: Bill Baltrusch Const., Inc.
P.O. Box 111
Havre, MT 59501

Permit #2902-01
Administrative Amendment (AA) Request Received: 10/23/06
Department Decision on AA: 11/16/06
Permit Final: 12/02/06
AFS #: 777-2902

An air quality permit, with conditions, is hereby granted to Bill Baltrusch Const., Inc. (Baltrusch) 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. Plant Location

Permit #2902-01 applies while operating at any location in Montana, except within those areas having a Department of Environmental Quality (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 (PM_{10}) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County*. An addendum to this air quality permit will be required if Baltrusch intends to locate in or within 10 km of certain PM_{10} nonattainment areas.

B. Current Permit Action

On October 23, 2006, the Department received a request from Baltrusch to change the name on Permit #2902-00 from Baltrusch, Inc. to Baltrusch. The current permit action will transfer ownership of Permit #2902-00 from Baltrusch, Inc. to Baltrusch and update the permit to reflect current rule references, permit language, and permit format.

SECTION II: Conditions and Limitations

A. Emission Limitations

1. All visible emissions from any Standards of Performance for New Stationary Source (NSPS)-affected crusher shall not exhibit an opacity of 15% or greater averaged over 6-consecutive minutes (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

2. All visible emissions from any other NSPS-affected equipment, such as screens or conveyor transfers, shall not exhibit an opacity of 10% or greater averaged over 6-consecutive minutes (ARM 17.8.340 and 40 CFR, Subpart OOO).

3. All visible emissions from any non-NSPS affected equipment shall not exhibit 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 17.8.749).

5. Baltrusch 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. Baltrusch 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. Baltrusch shall not operate more than one crusher at any given time and the maximum rated capacity of the crusher shall not exceed 200 tons per hour (TPH) (ARM 17.8.749).

8. Crushing production is limited to 1,752,000 tons during any rolling 12-month time period (ARM 17.8.749).

9. Baltrusch shall not operate more than one screen at any given time and the maximum rated capacity of the screen shall not exceed 200 TPH (ARM 17.8.749).

10. Screening production is limited to 1,752,000 tons during any rolling 12-month time period (ARM 17.8.749).

11. Baltrusch shall not operate more than one generator at any given time and the maximum rated design capacity of the generators shall not exceed 500 kilowatts (kW).

12. If the permitted equipment is used in conjunction with any other equipment owned or operated by Baltrusch, 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 (ARM 17.8.749).

13. Baltrusch shall comply with all applicable standards and limitations, and the reporting, recordkeeping, testing, and notification requirements contained in 40 CFR 60, Subpart OOO (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

B. 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).

C. Operational Reporting Requirements

1. If this crushing/screening plant is moved to another location, an Intent to Transfer form must be sent to the Department. In addition, 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 Intent to Transfer form and 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. Baltrusch 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 not be limited to, all sources of emissions identified in the emission inventory contained in 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, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

3. Baltrusch shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include a 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 or the addition of a new emission unit. 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(l)(d) (ARM 17.8.745).

4. Baltrusch shall maintain on-site records showing daily hours of operation and daily production rates for the last 12 months. The records complied in accordance with this permit shall be maintained by Baltrusch as a permanent business record for at least 5 years following the date of the measurement, must be available at the plant site for inspection by the Department, and must be submitted to the Department upon request (ARM 17.8.749).

5. Baltrusch shall document, by month, the crushing production from the facility. By the 25th day of each month, Baltrusch shall calculate the crushing production from the facility for the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section II.A.8. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).

6. Baltrusch shall document, by month, the screening production from the facility. By the 25th day of each month, Baltrusch shall calculate the screening production from the facility for the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section II.A.10. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).

7. Baltrusch shall annually certify that its emissions are less than those that would require the facility to obtain an air quality operating permit as required by ARM 17.8.1204(3)(b). The annual certification shall comply with the certification requirements of ARM 17.8.1207. The annual certification shall be submitted along with the annual emissions inventory information (ARM 17.8.749 and ARM 17.8.1204).

SECTION III: General Conditions

A. Inspection – Baltrusch 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 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 Baltrusch fails to appeal as indicated below.

C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving Baltrusch 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, as amended by the 1991 Legislature, failure to pay the annual operation fee by Baltrusch may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.

H. Construction Commencement – Construction must begin within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (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. Baltrusch 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.

PERMIT ANALYSIS
Bill Baltrusch Const., Inc.
Permit #2902-01

I. Introduction/Process Description

A. Permitted Equipment

Bill Baltrusch Const., Inc. (Baltrusch) operates a portable 1988 EI-Jay 11-45 cone crusher (maximum capacity up to 200 tons per hour (TPH)), a screen (maximum capacity 200 TPH), a diesel generator (up to 500 Kilowatts (kW)), and associated equipment.

B. Process Description

Baltrusch proposes to use this crushing/screening plant and associated equipment to crush and sort sand and gravel materials for use in various construction operations. For a typical operational setup, materials are loaded into the crushing/screening plant by a feeder, transferred by conveyor, and passed through the crushers. Materials are crushed by the crushers and sent to the screens. Materials are screened, separated, and sent to stockpile for sale and use in construction operations.

C. Permit History

On November 18, 1995, Baltrusch, Inc. was issued **Permit #2902-00** to operate a portable 1988 EI-Jay 11-45 cone crusher (maximum capacity up to 200 TPH), a screen (maximum capacity 200 TPH), a diesel generator (up to 500 kW), and associated equipment.

D. Current Permit Action

On October 23, 2006, the Department received a request from Baltrusch to change the name on Permit #2902-00 from Baltrusch, Inc. to Baltrusch. The current permit action will transfer ownership of Permit #2902-00 from Baltrusch, Inc. to Baltrusch and update the permit to reflect current rule references, permit language, and permit format. **Permit #2902-01** replaces Permit #2902-00.

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 quotations 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. Upon request, the Department will provide references for locations 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. ARM 17.8.101 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.

2. ARM 17.8.105 Testing Requirements. 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. ARM 17.8.106 Source Testing Protocol. 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).

   Baltrusch shall comply with all 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. ARM 17.8.110 Malfunctions. (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. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in 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 that a public nuisance is created.

B. ARM 17.8, Subchapter 2 - Ambient Air Quality, including, but not limited to:

1. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
3. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
5. ARM 17.8.223 Ambient Air Quality Standard for PM_{10}

Baltrusch must comply with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 - Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged to 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. ARM 17.8.308 Particulate Matter (PM), Airborne. (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 PM. (2) Under this rule, Baltrusch shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne PM.

3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause or authorize to be discharged into the atmosphere PM caused by the combustion of fuel in excess of the amount determined by this rule.

4. ARM 17.8.310 Particulate Matter, Industrial Processes. This rule requires that no person shall cause or allow to be discharged into the atmosphere PM in excess of the amount set forth in this rule.

5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this rule.

6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (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.

7. ARM 17.8.340 Standards of Performance for New Stationary Sources. This rule incorporates, by reference, 40 CFR 60, Standards of Performance for New Stationary Sources (NSPS). The owner or operator of any stationary source or modification, as defined and applied in 40 CFR Part 60, NSPS, shall comply with the standards and provisions of 40 CFR Part 60.

   In order for a crushing/screening plant to be subject to NSPS requirements, two specific criteria must be met. First, the crushing/screening plant must meet the definition of an affected facility and, second, the equipment in question must have been constructed, reconstructed, or modified after August 31, 1983. Based on the information submitted by Baltrusch, the facility is subject to NSPS requirements (40 CFR Part 60, Subpart A General Provisions, and Subpart OOO, Non-Metallic Mineral Processing Plants).

D. ARM 17.8, Subchapter 5 - Air Quality Permit Application, Operation and Open Burning Fees, including, but not limited to:

1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that Baltrusch 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. ARM 17.8.505 Air Quality Operation Fees. 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. This 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. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.

2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit alteration to construct, alter or use any air contaminant sources that have the Potential to Emit (PTE) greater than 25 tons per year of any pollutant. Baltrusch has a PTE greater than 25 tons per year of PM, PM_{10}, and oxides of nitrogen (NO_x); therefore, an air quality permit is required.

3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit Program.

4. ARM 17.8.745 Montana Air Quality Permits—Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.

5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) 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 current permit action is 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 current permit action is considered an administrative permit change.

6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. 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. ARM 17.8.752 Emission Control Requirements. 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 IV of this Permit Analysis.

8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.

9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving Baltrusch 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. ARM 17.8.759 Review of Permit Applications. 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 (EIS).

11. ARM 17.8.762 Duration of Permit. 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 altered 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. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of Baltrusch, 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. ARM 17.8.764 Administrative Amendment to Permit. 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 those found in its permit, 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. ARM 17.8.765 Transfer of Permit. (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 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 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. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.

2. ARM 17.8.818 Review of Major Stationary Sources and Major Modifications--Source Applicability and Exemptions. 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 listed and does not have a PTE greater 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. ARM 17.8.1201 Definitions. (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.

   c. PTE > 70 tons/year of PM_{10} in a serious PM_{10} nonattainment area.

2. ARM 17.8.1204 Air Quality Operating Permit Program Applicability. (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 #2902-01 for the Baltrusch facility, the following conclusions were made:

   a. The facility's PTE is less than 100 tons/year for any criteria 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 any current National Emission Standards for Hazardous Air Pollutants (NESHAP) standards.

   e. The facility is currently subject to NSPS (40 CFR 60, Subpart A, General Provisions, and Subpart OOO, Non-Metallic Mineral Processing Plants) standards.

   f. This source is not a Title IV affected source nor 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 would be a minor source of emissions, as defined under the Title V Operating Permit Program. However, if minor sources subject to NSPS are required to obtain a Title V Operating Permit, Baltrusch will be required to obtain a Title V Operating Permit.

III. Emission Inventory

Source	Tons/Year PM	PM-10	NO_X	VOC	CO	SO_X
1988 El-Jay Cone	52.56	17.52				
Diesel Generator (500 K/W)	1.41	1.02	67.58	2.08	15.46	23.74
Screen	17.52	7.01				
Material Transfer	61.32	24.53				
Pile Forming	8.76	3.50				
Bulk Loading	8.76	3.50				
Haul Roads	2.74	1.23				
Total	153.07	58.32	67.58	2.08	15.46	23.74

1988 El-Jay Cone

Process Rate: 200 ton/hr
Hours of operation: 8760 hr/yr

PM Emissions:

Emission Factor: 0.06 lbs/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.06 lbs/ton * 200 tons/hr = 12.00 lb/hr
12.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 52.56 ton/yr
52.56 ton/yr * (1.00 -0.0) = 52.56 ton/yr

PM-10 Emissions:

Emission Factor: 0.02 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.020 lb/ton * 200 tons/hr = 4.00 lb/hr
4.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 17.52 ton/yr
17.52 ton/yr * (1.00 -0.0) = 17.52 ton/yr

Diesel Generator (500 K/W)

Hours of operation: 8760 hr/yr
Number of Generators 1 Generator

PM Emissions

Emission Factor: 0.322 lb/hr (AP-42, Table 3.4-5)
Calculations: 0.322 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 1.41 ton/yr

PM-10 Emissions:

Emission Factor: 0.233 lb/hr (AP-42, Table 3.4-5)
Calculations: 0.233 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 1.02 ton/yr

NOx Emissions:

Emission Factor: 15.43 lb/hr (AP-42, Table 3.4-2)
Calculations: 15.43 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 67.58 ton/yr

VOC Emissions:

Emission Factor: 0.474 lb/hr (AP-42, Table 3.4-2)
Calculations: 0.474 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 2.08 ton/yr

CO Emissions:

Emission Factor: 3.53 lb/hr (AP-42, Table 3.4-2)
Calculations: 3.530 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 15.46 ton/yr

SOx Emissions:

Emission Factor: 5.42 lb/hr (AP-42, Table 3.4-2)
Calculations: 5.420 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 23.74 ton/yr

Screen

Process Rate: 200 ton/hr
Hours of operation: 8760 hr/yr
Number of Screens: 2 Screens

PM Emissions:

Emission Factor: 0.01 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.01 lb/ton * 200 ton/hr * 2 screens = 4.00 lb/hr
4.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 17.52 ton/yr
17.52 ton/yr * (1.00 -0.0) = 17.52 ton/yr

PM-10 Emissions:

Emission Factor: 0.004 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.004 lb/ton * 200 ton/hr * 2 screens = 1.60 lb/hr
1.60 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 7.01 ton/yr
7.01 ton/yr * (1.00 - 0.0) = 7.008 ton/yr

Material Transfer

Process Rate: 200 tons/hr
Number of Transfers 7 Transfers
Hours of operation: 8760 hr/yr

PM Emissions:

Emission Factor: 0.01 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.01 lb/ton * 200 ton/hr * 7 transfers = 14.00 lb/hr
14.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 61.32 ton/yr
61.32 ton/yr * (1.00 -0.0) = 61.32 ton/yr

PM-10 Emissions:

Emission Factor: 0.004 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.004 lb/ton * 200 tons/hr * 7 transfers = 5.60 lb/hr
5.60 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 24.53 ton/yr
24.53 ton/yr * (1.00 -0.0) = 24.53 ton/yr

Pile Forming

Process Rate: 200 ton/hr
Number of Piles 1 Pile
Hours of operation: 8760 hr/yr

PM Emissions:

Emission Factor: 0.01 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.01 lb/ton * 200 ton/HR = 2.00 lb/hr
2.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 8.76 ton/yr
8.76 ton/yr * (1.00 - 0.0) = 8.76 ton/yr

PM-10 Emissions:

Emission Factor: 0.004 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.004 lb/ton * 200 ton/hr = 0.80 lb/hr
0.80 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 3.50 ton/yr
3.50 ton/yr * (1.00 - 0.0) = 3.50 ton/yr

Bulk Loading

Process Rate: 200 ton/hr
Number of Loads 1 Load
Hours of operation: 8760 hr/yr

PM Emissions:

Emission Factor: 0.01 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.01 lb/ton * 200 ton/hr = 2.00 lb/hr
2.00 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 8.76 ton/yr
8.76 ton/yr * (1.00 - 0.0) = 8.76 ton/yr

PM-10 Emissions:

Emission Factor: 0.004 lb/ton (AP-42, Table 8.23-1, moisture content >4% by weight, pg. 8.23-4, 8/82)
Control Efficiency 0%
Calculations: 0.004 lb/ton * 200 ton/hr = 0.80 lb/hr
0.80 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 3.50 ton/yr
3.50 ton/yr * (1.00 - 0.0) = 3.50 ton/yr

Haul Roads

Vehicle miles traveled 5 VMT/day {Estimated}
Control Efficiency: 50% {Watering}

PM Emission Factor is based on AP-42, Section 11.2.1

PM Emissions:
PM Emission Factor (Rated Load Capacity < 50 tons) 6 Lb/VMT

E(PM)= (5 VMT/day)(6.00 Lb/VMT)(0.5)
E(PM)= 15.00 Lbs/day
or 2.74 ton/yr

PM-10 Emission Factor is based on AP-42, Section 11.2.1

PM-10 Emissions:
PM-10 Emission Factor (Rated Load Capacity <50 tons) 2.70 Lb/VMT

E(PM-10)= (5 VMT/day)(2.70 Lb/VMT)(0.5)
E(PM-10)= 6.75 Lb/day
or 1.23 ton/yr

IV. BACT Determination

A BACT determination is required for any new or altered source. Baltrusch shall install on the new or altered source the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized.

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

V. Existing Air Quality

Permit #2902-01 is issued for the operation of a portable crushing/screening plant to be located in various locations throughout Montana that are designated as attainment/unclassified for the National Ambient Air Quality Standards (NAAQS). This facility is a portable source that would operate on an intermittent and temporary basis and any effects on air quality in a given area will be minor and short-lived.

VI. Ambient Air Quality Impact Analysis

Permit #2902-01 will cover the operation while operating at any location within Montana, excluding those counties that have a Department approved permitting program, those areas considered tribal lands, or those areas in or within 10 km of certain PM_{10} nonattainment areas. 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 minor and short-lived.

VII. Taking or Damaging Implication Analysis

As required by 2-10-101 through 2-10-105, MCA, the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VIII. 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: Trista Glazier
Date: October 26, 2006