

AIR QUALITY PERMIT

Issued To: Concrete Placing Co., Inc.
6451 West Gowen Road
Boise, ID 83709

Permit #3319-00
Application Complete: 3/18/04
Preliminary Determination Issued: 4/23/04
Department Decision Issued: 05/11/04
Permit Final: 05/27/04
AFS #: 777-3319

An air quality permit, with conditions, is hereby granted to Concrete Placing Co., Inc. (Concrete Placing), pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

Section I: Permitted Facilities

A. Permitted Equipment

Concrete Placing operates a portable central mix concrete batch plant. A complete list of the permitted equipment is contained in Section I.A of the permit analysis.

B. Plant Location

Concrete Placing operates a portable central mix concrete batch plant operation, which will originally locate in the NW ¼ of Section 28, Township 28 North, Range 21 West, in Flathead County, Montana. However, Permit #3319-00 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 (PM₁₀) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County, Montana.* An addendum to this air quality permit will be required for locations in or within 10 km of certain PM₁₀ nonattainment areas.

Section II: Conditions and Limitations

A. Emission Control Requirements

1. Concrete Placing shall install, operate, and maintain the baghouse as specified in their Montana Air Quality Permit and all supporting documentation (ARM 17.8.752). Therefore, Concrete Placing shall install, operate, and maintain the baghouse on the weigh hopper, cement silo, and cement supplement silo.
2. Concrete Placing shall not cause or authorize to be discharged into the atmosphere from the ready mix plant:
 - a. Any vent emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304 and ARM 17.8.752).
 - b. Any fugitive emissions from the source, or from any material transfer operations, including, but not limited to, truck loading or unloading, which exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 and ARM 17.8.752).

3. Concrete Placing 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 and ARM 17.8.752).
4. Concrete Placing shall treat all unpaved portions of the haul roads, access roads, parking lots, and 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.3 (ARM 17.8.752).
5. Total plant production shall be limited to 3,066,000 cubic yards of concrete during any rolling 12-month time period (ARM 17.8.749).
6. If the permitted equipment is used in conjunction with any other equipment owned or operated by Concrete Placing, at the same site, production shall be limited to correspond with an emissions level that does not exceed 250 tons during any rolling 12-month time period. Any calculations used to establish production levels shall be approved by the Department (ARM 17.8.749).

B. Emissions Monitoring

1. Concrete Placing shall inspect the baghouse and its vents, which are used for controlling emissions from the silos and weigh hopper, every 6 months of operation to ensure that each collector is operating at the optimum efficiency. Records of inspections, repairs, and maintenance shall be kept for a minimum of 5 years (ARM 17.8.749).
2. Concrete Placing shall maintain on-site records of inspections, repairs, and maintenance. All records compiled in accordance with this permit shall be maintained by Concrete Placing as a permanent business record for at least 5 years following the date of the measurement, shall be submitted to the Department upon request, and shall be available at the plant site for inspection by the Department (ARM 17.8.749).

C. Testing Requirements

1. All compliance source tests shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
2. The Department may require testing (ARM 17.8.105).

D. Operational Reporting Requirements

1. If this concrete batch 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. Concrete Placing shall maintain on-site records showing daily hours of operation and daily production rates, and temperature and pressure drop readings, for the last 12 months. All records compiled in accordance with this permit must be maintained by Concrete Placing 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 plant site for inspection by the Department (ARM 17.8.749).

3. Concrete Placing 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 identified in the most recent emission inventory report and sources identified in Section I.A of the permit analysis.

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

4. Concrete Placing 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).
5. Concrete Placing shall document, by month, the total concrete plant production. By the 25th day of each month, Concrete Placing shall total the plant production during the previous 12 months to verify compliance with the limitation in Section II.A.5. A written report of the compliance verification shall be submitted annually to the Department along with the annual emission inventory (ARM 17.8.749).

Section III: General Conditions

- A. Inspection – Concrete Placing 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 Concrete Placing fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations - Nothing in this permit shall be construed as relieving Concrete Placing 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.* (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 postpones the effective date of the Department’s decision until conclusion of the hearing and issuance of a final decision by the Board. The Department’s decision on the application is not final until 15 days have elapsed and there is no request for a hearing under this section.
- 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. 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.
- H. Permit Fee – Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by Concrete Placing may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- 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. Concrete Placing shall comply with conditions contained in this permit while operating at any location in Montana, except within those areas having a Department approved permitting program.

Permit Analysis
Concrete Placing Co., Inc.
Permit #3319-00

I. Introduction

A. Permitted Equipment

Concrete Placing Co., Inc. (Concrete Placing) operates a portable central mix concrete batch plant, which includes a 1994 WEMCO central mix concrete batch plant (maximum capacity 350 cubic yards per hour), a diesel generator (up to 365 kilowatts (kW)), and associated equipment. Particulate emissions from the weigh hopper, cement silo, and cement supplement silo are controlled by a fabric filter dust collector.

B. Process Description

Concrete Placing proposes to use this concrete batch plant to produce wet mix concrete for use in various construction operations. For a typical operational setup, aggregate materials are loaded into a hopper, transferred to a conveyor, loaded into a storage bin, transferred to a scale, appropriately metered and fed to a conveyor, and loaded into a mixer. The cementitious material is pneumatically loaded into a silo (using fabric filters to control particulate emissions) and appropriately metered onto an enclosed scale and loaded into a central mixer. Aggregate, cementitious material, and water are funneled into the mixer. Materials are mixed, loaded into a truck mixer, and are transported (as cement) to the construction site.

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 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 subchapter, 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 Montana Clean Air Act, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

Concrete Placing 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, which 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 that, 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 as to create a public nuisance.

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 PM₁₀

Concrete Placing 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 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. ARM 17.8.308 Particulate Matter, 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 particulate matter. (2) Under this rule, Concrete Placing 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. 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 particulate matter caused by the combustion of fuel in excess of the amount determined by this section.
4. ARM 17.8.310 Particulate Matter, Industrial Process. 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. 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 section.

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, shall comply with the standards and provisions of 40 CFR Part 60. This plant consists of a 1994 WEMCO central mix concrete batch plant and associated equipment. NSPS (40 CFR Part 60, General Provisions and Subpart F, Portland Cement Plants) does not apply because the central mix plant does not meet the definition of an affected facility.

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 Concrete Placing 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. Concrete Placing submitted the appropriate permit application fee as required for the current permit action.
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, as 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 asphalt plant, crusher or screen that has the Potential to Emit (PTE) greater than 25 tons per year of any pollutant. Concrete Placing has a PTE greater than 25 tons per year of total particulate matter, particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀), 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 do not require a permit and 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, alteration or use of a source. Concrete Placing 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. Concrete Placing submitted an affidavit of publication of public notice for the March 11, 2004, issue of the *Daily Interlake*, a newspaper of general circulation in the town of Kalispell, in Flathead County, as proof of compliance with the public notice requirements.
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 Best Available Control Technology (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 Concrete Placing 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.
11. ARM 17.8.760 Additional Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those applications that require an environmental impact statement.
12. 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.

13. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of Concrete Placing, 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).
14. 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 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 contained in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.
15. 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 Modification-- 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 or 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 a lesser quantity as the

Department may establish by rule, or

c. PTE > 70 tons/year of PM₁₀ in a serious PM₁₀ 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 #3319-00 for Concrete Placing, the following conclusions were made:

- a. The facility's PTE is less than 100 tons/year for any air pollutant.
- b. The facility's PTE is less than 10 tons/year of any one HAP and less than 25 tons/year of all HAPs.
- c. This source is not located in a serious PM₁₀ nonattainment area.
- d. This facility is not subject to any current NSPS.
- e. This facility is not subject to any current NESHAP 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.

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

III. Emission Inventory

	Tons/Year
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Source	PM	PM ₁₀	NO _x	VOC	CO	SO _x
Aggregate Delivery to Ground Storage	9.86	4.72				
Sand Delivery to Ground Storage	2.30	1.08				
Aggregate Transfer to Hopper	9.86	4.72				
Sand Transfer to Hopper	2.30	1.08				
Aggregate Transfer to Conveyor Loadout	9.86	4.72				
Sand Transfer to Conveyor Loadout	2.30	1.08				
Aggregate Transfer to Storage Bin	9.86	4.72				
Sand Transfer to Storage Bin	2.30	1.08				
Aggregate Transfer to Scales	9.86	4.72				
Sand Transfer to Scales	2.30	1.08				
Aggregate Transfer to Conveyor	9.86	4.72				
Sand Transfer to Conveyor	2.30	1.08				
Cement Unloading to Storage Silo	0.27	0.17				
Cement Supplement Unloading to Storage Silo	0.18	0.06				
Weigh Hopper Loading of Sand/Aggregate	0.01	0.01				
Central Mixer Loading of Cement/Supplement/ Sand/Aggregate	0.65	0.23				
Diesel Generator (up to 365 KW)	4.72	4.72	66.46	5.30	14.32	4.39
Haul Roads	2.74	1.23				
Total =	81.53	41.22	66.46	5.30	14.32	4.39

- A complete emission inventory for Permit #3319-00 is on file with the Department. The permit emissions inventory is based upon a production rate of 350 TPH and no hourly operational limit placed upon the generator.

IV. BACT Determination

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

All visible emissions from any cement and cement supplement silos (or vents), truck loading or unloading operations, or any material transferring operations shall be limited to less than 20% opacity. Concrete Placing must also take reasonable precautions to limit the fugitive emissions of airborne particulate matter from haul roads, access roads, parking areas, and the general plant property. Concrete Placing shall use a baghouse for the cement silo, cement supplement silo, and weigh hopper. The Department determined that using a baghouse and water spray and/or chemical dust suppressant, to maintain compliance with the opacity and reasonable precaution limitations constitutes BACT for these sources.

Due to the amount of PM, PM₁₀, NO_x, CO, VOC, and SO_x emissions produced by the diesel generator, add-on controls would be cost prohibitive, as the source is a minor industrial emissions source. Thus, the Department determined that no additional control constitutes BACT for the generator. The control options selected have controls and control costs similar to other recently permitted similar sources and these controls are capable of achieving the established emissions limits.

V. Existing Air Quality

Addendum 1 of Permit #3319-00 would cover this portable central mix concrete batch plant while

operating in or within 10 km of a PM₁₀ nonattainment area during the summer months (April 1 through September 30), including the initial site location (the NW ¼ of Section 28, Township 28 North, Range 21 West, in Flathead County, Montana). Permit #3319-00 would also cover this facility while operating in areas classified as attainment or unclassified for ambient air quality standards.

VI. Air Quality Impacts

Based on the information provided and the conditions established in Permit #3319-00, the amount of controlled emissions generated by this facility will not exceed any set ambient air quality standards. Thus, the limitations and conditions established in Addendum 1 would further reduce emissions in these areas and would be protective of the ambient air quality standards. In addition, this source is portable and any air quality impacts will be minimal. The conditions in Permit #3319-00 will be protective of air quality while operating at locations not located in or within 10 km of certain PM₁₀ nonattainment areas.

VII. Taking or Damaging Implication Analysis

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

VIII. Environmental Assessment

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

Addendum 1
Concrete Placing Co., Inc.
Permit #3319-00

An addendum to air quality Permit #3319-00, with conditions, is hereby granted to Concrete Placing Co., Inc. (Concrete Placing) pursuant to Section 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.765, *et seq.*, as amended, for the following:

I. Permitted Equipment

The facility includes a 1994 WEMCO central mix concrete batch plant (maximum capacity 350 cubic yards per hour), a diesel generator (up to 365 kilowatts (kW)), and associated equipment. Particulate emissions from the weigh hopper, cement, and cement supplement silo are controlled by a fabric filter dust collector.

II. Seasonal and Site Restrictions

Addendum 1 applies to the Concrete Placing facility while operating at any location in or within 10 kilometers of certain PM₁₀ nonattainment areas (NAA). Seasonal and site restrictions apply to the facility as follows:

- A. During the winter season (October 1 - March 31) – Concrete Placing would not be allowed to operate at any location in or within 10 km of certain PM₁₀ NAAs.
- B. During the summer season (April 1-September 30) – Concrete Placing may operate at any location in or within 10 km of certain PM₁₀ NAAs, including, but not limited to: Libby, Thompson Falls, Kalispell, Whitefish, Columbia Falls, and Butte.
- C. Concrete Placing shall comply with the limitations and conditions contained in Addendum 1 to Permit #3319-00 while operating at any location in or within 10 km of any of the previously listed PM₁₀ NAAs. Addendum 1 shall be valid until revoked or modified. The Department reserves the authority to modify Addendum 1 at any time based on local conditions of any future site. These conditions may include, but are not limited to, local terrain, meteorological conditions, proximity to residences or other businesses, etc.

III. Limitations and Conditions

A. Operational

- 1. Concrete Placing shall not cause or authorize to be discharged into the atmosphere from the facility any vent emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
- 2. Concrete Placing shall not cause or authorize to be discharged into the atmosphere from the facility any fugitive emissions, including, but not limited to, truck loading or unloading and material transfer operations, which exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
- 3. All visible emissions from the cement and cement supplement silos shall be limited to 10% opacity averaged over 6 consecutive minutes (ARM 17.8.749).

4. Emissions from the access roads, parking lots, and general plant area shall be limited to 10% opacity averaged over 6 consecutive minutes (ARM 17.8.749).
5. Concrete Placing shall treat all unpaved portions of the access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precaution limitation (ARM 17.8.749).
6. Total concrete plant production shall be limited to 8400 cubic yards during any rolling 24-hour time period (ARM 17.8.749).

B. Operational Reporting Requirements

1. Concrete Placing shall provide the Department with written notification of job completion within 10 working days of job completion (ARM 17.8.749).
2. Concrete Placing shall provide written notice of relocation of the permitted equipment at least 15 days prior to the physical transfer of equipment (ARM 17.8.765).
3. Production information for the site(s) covered by this addendum shall be submitted to the Department within 30 days of completion of the project or expiration of Addendum 1. The information shall include (ARM 17.8.749):
 - a. Cubic yards of concrete produced at each site
 - b. Hours of operation at each site
 - c. Fugitive dust information consisting of a listing of all plant vehicles, including the following for each vehicle type:
 - i. Number of vehicles
 - ii. Vehicle type
 - iii. Vehicle weight, loaded
 - iv. Vehicle weight, unloaded
 - v. Number of tires on vehicle
 - vi. Average trip length
 - vii. Number of trips per day per vehicle
 - viii. Average vehicle speed
 - ix. Area of activity
 - x. Vehicle fuel usage (gasoline or diesel) annual total
 - d. Fugitive dust control for haul roads and general plant area:
 - i. Hours of operation of water trucks
 - ii. Application schedule for chemical dust suppressant, if applicable
4. Concrete Placing shall document, by day, the total plant production. By the 25th day of each month, Concrete Placing shall total the production for each day during the previous month to verify compliance with the limitation in Section II.A.6. A written report of the compliance verification shall be submitted annually to the Department and may be submitted along with the annual emission

inventory (ARM 17.8.749).

Addendum I Analysis
Concrete Placing Co., Inc.
Permit #3319-00

I. Permitted Equipment

Concrete Placing Co., Inc. (Concrete Placing) operates a portable central mix concrete batch plant, which includes a 1994 WEMCO central mix concrete batch plant (maximum capacity 350 cubic yards per hour), a diesel generator (up to 365 kilowatts (kW)), and associated equipment. Particulate emissions from the weigh hopper, cement silo, and cement supplement silo are controlled by a fabric filter dust collector.

II. Process Description

For a typical operational setup, aggregate materials are loaded into a hopper, transferred to a conveyor, loaded into a storage bin, transferred to a scale, appropriately metered and fed to a conveyor, and loaded into a mixer. The cementitious material is pneumatically loaded into a silo (using fabric filters to control particulate emissions) and appropriately metered onto an enclosed scale and loaded into a central mixer. Aggregate, cementitious material, and water are funneled into the mixer. Materials are mixed, loaded into a truck mixer, and are transported (as cement) to the construction site.

III. 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 of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:

- A. 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.
- B. 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. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.
- C. ARM 17.8.765 Transfer of Permit. An air quality permit may be transferred from one person to another if:
 - 1. Written notice of Intent to Transfer location and public notice is sent to the Department.

2. The source will operate in the new location for a period of less than 1 year.
3. The source will not have any significant impact on any nonattainment area or any Class I area.

Concrete Placing will have to submit proof of compliance with the transfer and public notice requirements when they transfer to the location covered by this addendum and will only be allowed to stay in the new location for a period of less than 1 year. Also, the conditions and controls of this addendum will keep Concrete Placing from having a significant impact on any PM₁₀ Nonattainment Areas (NAAs) covered by this permit.

IV. Emission Inventory

Source	Lb/Day					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
Aggregate Delivery to Ground Storage	54.05	25.85				
Sand Delivery to Ground Storage	12.59	5.94				
Aggregate Transfer to Hopper	54.05	25.85				
Sand Transfer to Hopper	12.59	5.94				
Aggregate Transfer to Conveyor Loadout	54.05	25.85				
Sand Transfer to Conveyor Loadout	12.59	5.94				
Aggregate Transfer to Storage Bin	54.05	25.85				
Sand Transfer to Storage Bin	12.59	5.94				
Aggregate Transfer to Scales	54.05	25.85				
Sand Transfer to Scales	12.59	5.94				
Aggregate Transfer to Conveyor	54.05	25.85				
Sand Transfer to Conveyor	12.59	5.94				
Cement Unloading to Storage Silo	1.48	0.95				
Cement Supplement Unloading to Storage Silo	0.96	0.34				
Weigh Hopper Loading of Sand/Aggregate	0.07	0.03				
Central Mixer Loading	3.56	1.26				
Diesel Generator (up to 365 KW)	25.84	25.84	364.16	29.02	78.47	24.08
Haul Roads	15.00	6.75				
Total =	446.75	225.91	364.16	29.02	78.47	24.08

- A complete emission inventory for Addendum 1 to Permit #3319-00 is on file with the Department. The emissions inventory is based upon Concrete Placing's request for summertime operations only. The limit in the addendum is based upon a production rate of 350 TPH for the central mix concrete batch plant facility.

V. Existing Air Quality

On July 1, 1987, the Environmental Protection Agency (EPA) promulgated new National Ambient Air Quality Standards (NAAQS) for PM₁₀. Due to exceedances of the national standards for PM₁₀, the cities of Kalispell (and the nearby Evergreen area), Columbia Falls, Butte, Whitefish, Libby, Missoula, and Thompson Falls were designated by EPA as nonattainment for PM₁₀. As a result of this designation, EPA required the Department and the City-County Health Departments to submit PM₁₀ State Implementation Plans (SIP). The SIPs consisted of emission control plans that controlled fugitive dust emissions from roads, parking lots, construction, and demolition, since technical studies determined these sources to be the major contributors to PM₁₀ emissions.

Addendum 1 to Permit #3319-00 sets conditions and limitations that allow for this portable concrete batch plant to be located in or within 10 km of certain PM₁₀ NAAs during the summer months (April 1-September 30), including the proposed initial site location at the NW ¼ of Section 28, Township 28 North, Range 21 West, in Flathead County, Montana.

VI. 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.

VII. 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
P.O. Box 200901, Helena, Montana 59620
(406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: Concrete Placing Co., Inc.
6451 West Gowen Road
Boise, ID 83709

Air Quality Permit Number: #3319-00

Preliminary Determination Issued: April 23, 2004

Department Decision Issued: May 11, 2004

Permit Final: May 27, 2004

1. *Legal Description of Site:* This permit is for the operation of a portable concrete batch plant to be initially located at the NW ¼ of Section 28, Township 28 North, Range 21 West, in Flathead County, Montana. Permit #3319-00 would apply while operating at any location in Montana, except within those areas having a Department approved permitting program, those areas considered tribal lands, or those areas in or within 10 kilometers of certain PM₁₀ nonattainment areas. *A Missoula County air quality permit would be required for locations within Missoula County, Montana.* Addendum 1 to this air quality permit applies for locations in or within 10 km of certain PM₁₀ nonattainment areas.
2. *Description of Project:* Concrete Placing submitted a permit application for the construction and operation of a portable central mix concrete batch plant, which would include a 1994 WEMCO central mix concrete batch plant (maximum capacity 350 cubic yards per hour), a diesel generator (up to 365 kW), and associated equipment. Particulate emissions from the cement silo, cement supplement silo, and weigh hopper would be controlled by a baghouse.
3. *Objectives of the Project:* Concrete Placing, in an effort to increase business and revenue for the company through the construction and use of their facility, submitted a complete application for a central mix concrete batch plant. The concrete batch plant would be used to supply wet mix concrete to various Concrete Placing construction projects and would allow Concrete Placing to operate the portable equipment at various locations throughout Montana, including the proposed initial site location.
4. *Additional Project Site Information:* In many cases, the central mix concrete batch plant operation may move to a general site location, or open cut pit, which has been previously permitted through the Industrial and Energy Minerals Bureau (IEMB). If this were the case, a more extensive EA for the site would have been conducted and would be found in the Mined Land Reclamation Permit for that specific site.
5. *Alternatives Considered:* In addition to the proposed action, the Department also considered the "no-action" alternative. The "no-action" alternative would deny issuance of the air quality preconstruction permit to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because Concrete Placing demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.

6. *A Listing of Mitigation, Stipulations, and Other Controls:* A list of enforceable conditions, including a BACT analysis, would be contained in Permit #3319-00.
7. *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 demonstrate compliance with those requirements and would not unduly restrict private property rights.
8. *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
A.	Terrestrial and Aquatic Life and Habitats			X			yes
B.	Water Quality, Quantity, and Distribution			X			yes
C.	Geology and Soil Quality, Stability, and Moisture			X			yes
D.	Vegetation Cover, Quantity, and Quality			X			yes
E.	Aesthetics			X			yes
F.	Air Quality			X			yes
G.	Unique Endangered, Fragile, or Limited Environmental Resource				X		yes
H.	Demands on Environmental Resource of Water, Air, and Energy			X			yes
I.	Historical and Archaeological Sites			X			yes
J.	Cumulative and Secondary Impacts			X			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 would use the same area as the concrete batch plant operations. Impacts on terrestrial and aquatic life could result from storm water runoff and pollutant deposition, but such impacts would be minor because the concrete batch operations would be considered a minor source of air emissions and would have intermittent and seasonal operations. Therefore, storm water runoff would not deposit large quantities of pollutant emission into any surrounding water resources and, therefore, would not create adverse impacts upon surrounding terrestrial and aquatic life. Furthermore, the air emissions would have only minor effects on terrestrial and aquatic life because facility emissions would be well dispersed in the area of operations (See Section 8.F of this EA).

There is an unnamed pond approximately 1/3 mile away from the proposed operational site and the Flathead River is approximately 1/2 mile away from the proposed operational site. At such a distance, the water resources would not be affected by the proposed operations because only minor amount emissions would be generated from the proposed operations and because good pollutant dispersion would minimize the amount/concentration of pollutants that would reach the river. Therefore, only minor and temporary effects to terrestrial and aquatic life and habitat would be expected from the proposed concrete batch plant operations.

B. Water Quality, Quantity, and Distribution

Water would be used for dust suppression on the surrounding roadways and areas of operation and for concrete production. However, water use would only cause a minor disturbance to the area since only relatively small amounts of water would be needed. At most, only minor surface and groundwater quality impacts would be expected as a result of using water for dust suppression because only small amounts of water would be required for pollution control and facility operations (as described in Section 8.H of this EA). Also, deposition of air pollutants on surrounding waterways would be minor (as described in Section 8.F of this EA). Further, as described in Section 8.F, good ventilation exists at the proposed site to disperse the pollutants generated from the concrete batch operations and pollutant emissions upon the surrounding area of operations would be minor; therefore, any effects on water quality, quantity, and distribution surrounding the proposed operational site would be minor.

C. Geology and Soil Quality, Stability, and Moisture

The construction and use of the concrete batch plant would have only minimal impacts upon soils at the proposed site location since the concrete batch plant is relatively small in size and would have seasonal and intermittent operations. Also, this facility would be locating at a previously disturbed aggregate mining site. Therefore, little change to existing soil conditions would occur and any effects on geology and soil quality, stability, and moisture at the proposed operational site would be minor.

D. Vegetation Cover, Quantity, and Quality

The proposed site has already been designated and used for the mining of gravel, has already been disturbed, and the proposed concrete batch plant would be able to utilize aggregate from the site. The proposed site is on flat terrain, in an area that would provide for good air emissions dispersion. The area surrounding the proposed operations is primarily used for agricultural purposes and the concrete batch plant would only generate a minor amount of emissions. Therefore, impacts on the surrounding environment would be minor (See Section 8.F of this EA). Further, the concrete batch plant would operate on a temporary and intermittent basis. Because water usage would be minimal (See Section 8.B of this EA) and the associated soil disturbance from pollutant deposition and water use for pollution control would be minimal (See Section 8.C of this EA), corresponding vegetative impacts would also be minimal.

E. Aesthetics

The concrete batch plant would be a relatively small industrial facility. The facility would be visible, including visible emissions from the plant. However, Permit #3319-00 and Addendum 1 would include conditions to control emissions, including visible emissions, from the plant. Operating the facility would also result in additional noise in the area. However, noise impacts from this facility on the surrounding area would be minor because the noise from the facility would be relatively quiet when compared to other common area noise sources, including nearby Highway 93. Additionally, the concrete batch plant would operate on an intermittent and seasonal basis and the nearest household would be approximately 1/4 mile away. Therefore, any associated impacts upon aesthetics from the construction and use of the concrete batch plant would be minor and short-lived.

F. Air Quality

Air quality impacts from the proposed project would be minor because Permit #3319-00 would include conditions limiting the facility's opacity, as well as would require a fabric filter dust collector to control facility emissions. Furthermore, Permit #3319-00 would limit total emissions from Concrete Placing's concrete batch plant and any additional Concrete Placing equipment operated at the site to 250 tons/year or less, excluding fugitive emissions. Dust suppression would also be required to control fugitive emissions. Also, Addendum 1 would place additional operational and

production limit upon the facility at the initial proposed site location.

Further, the Department determined that the concrete batch plant would be a minor source of emissions as defined under the Title V Operating Permit Program because the source's potential to emit would be below the major source threshold level of 100 tons per year for any regulated pollutant.

The proposed concrete batch plant operations would initially locate at a previously disturbed site that is separated from the general population. Pollutant deposition from the facility would be minimal because the pollutants emitted would be widely dispersed (from factors such as wind speed and wind direction) and because the magnitude of the emissions would be relatively small. Therefore deposition of pollutant emissions would only have minor effects upon surrounding soils, vegetation, water resources, human populations, and terrestrial and aquatic life. Air quality impacts from operating the concrete batch plant in this area would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The Department, in an effort to assess any potential impacts to unique endangered, fragile, or limited environmental resources in the initial proposed area of operation, contacted the Montana Natural Heritage Program (MNHP). MNHP search results concluded there are four such environmental resources found within the defined search area of concern. The area, in this case, is defined as the township and range of the proposed site, with an additional one-mile buffer.

Fish species of concern include the Westslope Cutthroat Trout and Bull Trout. These two fish species of concern are found within the confluences of the Flathead River, which is approximately 1/2 mile away. The nearest tributary (an outlet stream from the unnamed pond) is more than 1/3 mile away from the proposed operational site location. Therefore, because of the proposed operations distance from the surrounding waterways, and the conditions in Permit #3319-00 and Addendum 1, pollutant deposition would be minor. Therefore, these fish species would not be impacted from facility operations.

The Bald Eagle is farther than 2.5 miles from the proposed project site. According to the 1994 Bald Eagle Management Plan, the home range of the Bald Eagle is a 2.5-mile radius and the primary use area is a 0.5-mile radius. Therefore, no impacts upon the Bald Eagle would be expected from the proposed project.

Great Blue Heron Bird Rookery is within the defined search area, but would be 3/4 mile away. The proposed facility would be operating under the conditions and limitations of Addendum 1 and on a seasonal and intermittent basis. Concrete Placing would be required to utilize appropriate pollution control equipment and operational procedures. Therefore, only minor impacts could be expected from the concrete batch plant operations on the great blue heron bird rookery.

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

Due to the size of the facility, the concrete batch plant would only require small quantities of water, air, and energy for proper operation. Only small quantities of water would be needed for dust suppression and for the concrete batching operations. Approximately 20 gallons of water would be needed for every cubic yard of concrete produced. Therefore, at the initial site location, the proposed facility could utilize as much as 700 gallons per minute for concrete production. However, such operations would be seasonal and intermittent, so demands on existing water resources would be below this rate of consumption. 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. Energy requirements would also be small, as power would be provided by one small industrial diesel generator that would use minor amounts of fuel. Therefore, any impacts to water, air, and energy resources would be minor.

I. Historical and Archaeological Sites

The Department previously contacted the Montana Historical Society - State Historical Preservation Office (SHPO) in an effort to identify any historical and/or archaeological sites that may be present in the proposed area of construction/operation. Through those efforts, the Department concluded that there are no previously recorded historical or archaeological resources of concern within the proposed area of operations. The area has previously been used for aggregate mining. Also, according to past correspondence from the Montana State Historic Preservation Office, given the previous disturbance in the area, there would be a low likelihood of adverse disturbance to any archaeological or historic site. Therefore, no impacts upon historical or archaeological sites would be expected as a result of operating the proposed concrete batch plant.

J. Cumulative and Secondary Impacts

The concrete batch plant 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, PM₁₀, NO_x, VOC, CO, and SO_x. Noise would also be generated from the site. Emissions and noise would cause minimal disturbance because the site is located in an area that has good ventilation and is removed from the general population and used as an existing aggregate mine site. Further, noise generated from the facility would be overshadowed by the noise generated from highway traffic. Therefore, noise would be considered as having minor, but cumulative, effects on noise in the existing area. Additionally, this facility may be used in conjunction with crushing/screening equipment owned and operated by Concrete Placing, but the combined emissions of these operations would be limited to 250 tons per year of any pollutant (excluding fugitive emissions) at the site. These other sources would also be subject to air permitting if their potential emissions are too high. Overall, any impacts to the physical and biological aspects of the human environment would be minor.

9. 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.

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Social Structures and Mores				X		yes
B.	Cultural Uniqueness and Diversity				X		yes
C.	Local and State Tax Base and Tax Revenue			X			yes
D.	Agricultural or Industrial Production			X			yes
E.	Human Health			X			yes
F.	Access to and Quality of Recreational and Wilderness Activities			X			yes
G.	Quantity and Distribution of Employment			X			yes
H.	Distribution of Population				X		yes
I.	Demands for Government Services			X			yes
J.	Industrial and Commercial Activity			X			yes
K.	Locally Adopted Environmental Plans and Goals			X			yes
L.	Cumulative and Secondary Impacts			X			yes

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

A. Social Structures and Mores

The concrete batch plant would cause no disruption to the social structures and mores in the area because of the location of the source, size of the source, portable and temporary nature of the source, and intermittent and seasonal operations of the source. The equipment would be located at a site that is designated for industrial usage, is removed from the general population, located near Highway 93, and 1/4 mile away from the nearest household. Additionally, the facility would be a minor source of air pollution, would be a relatively small industrial operation, and would be required to operate under the conditions in Permit #3319-00 and Addendum 1. Also, the predominant use of the surrounding areas would not change as a result of this project. Thus, no impacts upon social structures or mores would result.

B. Cultural Uniqueness and Diversity

The cultural uniqueness and diversity of the area would not be impacted by the proposed concrete batch plant because the facility would be located at a site that is currently designated and used for industrial operations, would be separated from the general population, and would be considered a portable source with seasonal and intermittent operations. The predominant use of the surrounding areas would not change as a result of this project; therefore, the cultural uniqueness and diversity of the area would not be affected.

C. Local and State Tax Base and Tax Revenue

The concrete batch plant operations would have little, if any, impact on the local and state tax base and tax revenue because the facility would be a relatively small industrial source and would operate seasonally and intermittently. The facility operations would require the use of only 10 employees for facility operations. Thus, only minor, if any, impacts to the local and state tax base and revenue could be expected from the employees and facility production. Furthermore, the impacts to local tax base and revenue is expected to be minor because the source would also be portable and the money generated for taxes would be widespread.

D. Agricultural or Industrial Production

The concrete batch plant operations would have only a minor impact on local industrial production since the facility is relatively small by industrial standards and would only have minor amounts of air emissions. Also, the facility would locate in an existing permitted open-cut pit, adjacent to an area that could be used for animal grazing and agricultural production. Because minimal deposition of air pollutants would occur on the surrounding land as described in Section 8.F of this EA, minor effects on the surrounding vegetation (i.e. 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, as described in Section 8.D of this EA.

E. Human Health

Permit #3319-00 would incorporate conditions to ensure that the concrete batch plant would be operated in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As described in Section 8.F., the air emissions from this facility would be minimized by the use of a fabric filter dust collector and production and opacity limits established in Permit #3319-00 and Addendum 1. Based on the facility operations, the permit conditions applicable to the facility, and the seasonal nature of the facility, the human health impacts

from the facility would be minor.

F. Access to and Quality of Recreational and Wilderness Activities

The concrete batch plant would have no impacts on the access to recreational and wilderness activities because the facility would be operating on private property, at a site that has had previous disturbance and industrial use. However, minor effects to the quality of recreational and wilderness activities would result from the visual observation of the facility, visual emissions from the facility, and noise from equipment operations. The facility would operate in an area removed from the general population and where dispersion of pollutants is expected. The proposed operational site is adjacent to Highway 93, where noise is generated from traffic and where traffic traveling upon the highway could view the facility operations. However, noise from the concrete batch plant operations would be overshadowed by existing traffic and would only result in minor cumulative increases of noise in the area. Operations of the facility would also be intermittent and temporary. Therefore, any effects on quality of recreational and wilderness activities would be minor and short-lived.

G. Quantity and Distribution of Employment

The concrete batch plant would have only minor effects on the quantity and distribution of employment in the area because only 10 Concrete Placing employees would be used for such operations, the facility would be a relatively small and portable source, and the facility would have seasonal and intermittent operations. No individuals would be expected to permanently relocate to this area of operation as a result of operating the concrete batch facility. Therefore, at most, only minor effects upon the quantity and distribution of employment in this area would be expected.

H. Distribution of Population

The portable concrete batch plant is small and may create a few employment opportunities with Concrete Placing. Therefore, because the facility is small and because it would be operating on a seasonal and intermittent basis, no individuals would be expected to permanently relocate to this area of operation as a result of operating the concrete batch plant. Thus, the facility is not expected to disrupt the normal population distribution in the proposed area of operation.

I. Demands of Government Services

Minor increases would be seen in traffic on existing roadways in the area while the concrete batch plant is operating. In addition, government services would be required for acquiring the appropriate permits from government agencies for the proposed project and to verify compliance with the permits that would be issued. Demands for government services would be minor.

J. Industrial and Commercial Activity

The concrete batch plant would represent only a minor increase in the industrial activity in the proposed operational site because the source would be a relatively small source and portable in nature. The facility may be used in conjunction with crushing/screening equipment owned by Concrete Placing. The associated concrete batching operations are expected to be intermittent and temporary with limited production. Therefore, any impacts upon the industrial and commercial activity in the area is expected to be minor and short-lived.

K. Locally Adopted Environmental Plans and Goals

Concrete Placing would generally be allowed, by permit, to operate in areas designated by EPA as attainment or unclassified. Permit #3319-00 would contain limits for protecting air quality and to keep facility emissions in compliance with applicable ambient air quality standards. Locally adopted environmental plans and goals do not exist for this area. Because the facility would be a small and portable source and would have intermittent and seasonal operations, any impacts from the facility

would be minor and short-lived.

L. Cumulative and Secondary Impacts

The concrete batch plant would cause minor cumulative and secondary impacts to the economic and social aspects of the human environment in the immediate area of operation. Cumulative impacts would result, as the permitted equipment would typically operate in conjunction with other permitted equipment owned and operated by Concrete Placing. The proposed operations would create additional traffic and industrial activity at the site and immediate surrounding areas. However, only minor cumulative impacts upon the to the local economy and the social environment would be expected, because such operations are expected to be seasonal and intermittent.

There would also be secondary impacts from concrete batch plant operations upon the local economy and social aspects of the human environment. Secondary economic impacts would occur as a by-product of the sale and use of concrete in the proposed area of operations. However, though the product is a valuable construction material, the facility would not be generating a product that is unique or that could not be obtained elsewhere, so any impacts would be minor. Secondary impacts upon the social aspects of the human environment in the immediate area would be minor because these proposed operations would cause minor (cumulative) increases in facility traffic that would have minor (secondary) effects on local traffic in the immediate area.

Recommendation: An EIS is not required.

If an EIS is not required, explain why the EA is an appropriate level of analysis: All potential effects resulting from construction and operation of the proposed facility are minor; therefore, an EIS is not required.

Other groups or agencies contacted or which may have overlapping jurisdiction: Department of Environmental Quality - Permitting and Compliance Division (Industrial and Energy Minerals Bureau); Montana Natural Heritage Program; and the State Historic Preservation Office (Montana Historical Society).

Individuals or groups contributing to this EA: Department of Environmental Quality (Air Resources Management Bureau and Industrial and Energy Minerals Bureau), Montana Natural Heritage Program, and State Historic Preservation Office (Montana Historical Society).

EA prepared by: Ron Lowney

Date: April 16, 2004