



Fremont County
Department of Transportation

1170 Red Canyon Road • Cañon City, Colorado 81212
Phone: 719-276-7430 • Fax: 719-275-2120

EXHIBIT A

LEGAL DESCRIPTION and LOCATION MAP

A PARCEL OF LAND LOCATED WITHIN SECTION 19 AND 30,
TOWNSHIP 19 SOUTH, RANGE 73 WEST OF THE 6TH P.M., BEING MORE
PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A GLO WITNESS CORNER TO THE SOUTH
QUARTER (BEING A GLO BRASS CAP) FROM WHICH THE SOUTH
QUARTER BEARS N 90°00'00" E (ASSUMED) 52.49 FEET; THENCE S
68°35'48" E, 324.08 FEET TO THE POINT OF BEGINNING; THENCE N
54°20'59" E, 450.99 FEET; THENCE S 30°11'49" E, 689.35 FEET;
THENCE S 72°13'15" W, 768.40 FEET; THENCE N 01°52'03" E, 567.88
FEET TO THE POINT OF BEGINNING.

CONTAINING 8.269 ACRES MORE OR LESS

COUNTY OF FREMONT
STATE OF COLORADO



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EXHIBIT C
MINING PLAN

Mining would commence in the year 2018, as soon as permits are in hand. The proposed operation's purpose is to establish a gravel pit for Fremont County road maintenance in the surrounding area in western Fremont County. The reserve consists of granite rock with a variety of hardness and a clay deposit for binder if the rock becomes too clean. The life of the mine is expected to be 15 years and at full capacity the mine would produce 10,000 tons of gravel per year with a total of 150,000 tons for the life of the mine. The plan for the product is to be a direct haul from the pit to the roads. Product will either be crushed by a contractor or by screening by the county crew. It will then be used as needed. Product stockpile will be located the northern boundary of the proposed area.

Portions of the site contain 2" to 1 foot of topsoil, which will be stockpiled along the east boundary prior to mining for use as growth media. The depth of the work area will be no greater than 15' below the existing RR grade. Any slopes created will be graded no steeper than 2:1 and contoured to prevent erosion. After mining, the floor and slopes of the disturbed area will be seeded with a mixture of native grasses and shrubs.

Operation of the mine will be sporadic throughout the year. A total time would be 3 months, from 6am to 4:30pm Monday through Friday. At request of the Division Of Wildlife there will be no activity during the rifle big game season.

Mining equipment will consist of a dozer, front end loader, track hoe & haul trucks. Due to the simplicity of the operation, no permanent structures are planned, nor are any utilities or service facilities needed.

6.3.3 EXHIBIT C – MINING PLAN DEFICIENCY RESPONSES

2. Topsoil vs. overburden: For the purpose of this application, “soil” is considered topsoil, not overburden. We will rip material and stockpile it to be used as topsoil for growth media in reclamation. The topsoil stockpile will be sloped at no greater than 2:1, H:V, and will be seeded and mulched.

3. Water Use: During crushing and screening operations, water will not be needed for processing the material. The only water needed will be on the haul road for dust control purposes, if needed, and water resource locations are included in our Substitute Water Supply Plan currently in force. Water is metered and reported to the State on a monthly basis as it is used. It is impossible to provide an exact amount of water, as we do not request water ahead of time, we report actual gallons used after we have used it. We are exempt from requirements of an Air Permit, as per our application #17FR0257F, as we are under the threshold of the annual process rate.

4. Groundwater/surface water interception: There are no known aquifers within the mining area or in the vicinity of the mining area. Gravel extraction will be performed within bermed work areas in order to contain and collect storm runoff water and sediments that may otherwise be carried to neighboring drainages. Due to the high percolation rate of the soil in the pit and the fact that the mining will cover a small acreage, the bermed mining area are not expected to form detention ponds or standing water due to storm events. Underlying material will promote sufficient infiltration to enable the pit excavation area to sufficiently drain the disturbed, and subsequently reclaimed site, within 72-hours. The largest draw in the area is outside of the permit area and will be bermed to prevent it from encroaching into the permit area. Please refer to the Geologist report provided to us stating such. The Geology report has been incorporated into our Storm Water Management Plan.

5. Applicable Colorado water laws: This permit will not cause injury to existing water rights, as we will not be using water to process material, we are not constructing a well or boring holes, nor will there be any run-off into waters. Please refer to the Geologist report provided.

6. Refuse, acid or toxic producing materials: We do not expect to encounter any hazardous, toxic, or acid producing materials during mining of this gravel deposit. We are only extracting gravel, and no chemicals will be used in this process. We will have a spill kit on hand in the event machinery breaks down.

7. Explosives: will not be used in the operations of the gravel pit, including reclamation efforts. We will not be blasting at this site.



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EXHIBIT D
RECLAMATION PLAN

Reclamation of the proposed pit will commence whenever one portion is mined out and will continue throughout the life of the mine. Topsoil will be placed over the slopes that are regraded and contoured to a 2:1 slope and then planted with native grasses and shrubs found on site and are known to grow well in the area. The seed mix is listed below.

Seeding will commence within 30 days from final grading operations. After broadcasting seed at a rate of 20# per acre, the seeded area will be mulched with certified straw and then crimped with a dozer or disc.

Gamma Grass
Indian Rice grass
Western Wheatgrass
Alfalfa
Mountain Mahogany
Currant
Winterfat

6.3.4 EXHIBIT D – RECLAMATION PLAN DEFICIENCY RESPONSES

8. Overburden replacement, 6.3.4(1)(a): For the purpose of this application, “soil” is considered topsoil, not overburden. We will rip material and stockpile it to be used as topsoil for growth media in reclamation. The topsoil stockpile will be sloped at no greater than 2:1, H:V, and will be seeded and mulched.

9. Minimum slopes, 6.3.4(1)(a): Fremont County is proposing the 2H:1V slope for reclamation because the goal is to have a terrace slope, as it is all decomposed granite currently. The terrace slope will help to prevent erosion and work as a collection place for moisture and aide in revegetation. If the bank slope is decomposed granite and we are not able to apply topsoil, this would allow for a vertical reclamation without revegetation, mainly due to the fact that decomposed granite does not erode. We will reclaim where it is possible to reclaim, and where revegetation would occur.

10. Revegetation measures, 6.3.4(1)(c):

a. Currently, there is no plant growth, as there are only pine trees, with pine needle ground cover. Should revegetation be possible with the current terrain, we would approximate the thickness to be 4” of topsoil.

b. Breakup of the soil would be done by dozer tracks and crimping, with the seed report provided by NRCS, or from similar gravel pit mixes.

c. Quantities of each grass, forb and shrub species will be provided by NRCS once we receive the seed report.

d. Mulch application would be at least 2,000#/ac.

11. Existing road: The railroad grade will remain after reclamation. Please refer to item #5 under Conditions of the Free Use Permit #COC-075940 between the BLM and Fremont County, stating: *“Disturbance to the railroad segment will be avoided by project activities by placing boulders along the base of the railroad grade, as a barrier, in order to prevent damage to the ballast by heavy machinery working nearby. This work will need to be coordinated with BLM ahead of time, so BLM can be onsite during the boulder placement work.”*; and item #8 stating: *“The access road and old railroad bed should be left open for future forestry work...”*.

12. Reclamation Map, gradient: The pit floor will slope away to the south from the railroad berm. The material will be removed above drainages, which will not create a direct interference with the current storm water flow/infiltration regime. Please refer to the Geologist report provided by the BLM, which has also been incorporated into our storm water management plan.

13. Reclamation Map, overburden and topsoil thickness: Map revised by Matt Koch and is submitted with our responses. All of the topsoil will be used for reclamation. Approximate depth goal is to be between 2” to 12”, with a realistic goal of 4”.



STATE OF
COLORADO

Cazier - DNR, Tim <tim.cazier@state.co.us>

RE: M-2018-010 Preliminary Adequacy Review Letter

1 message

Annette Ortega <annette.ortega@fremontco.com>

Mon, Apr 9, 2018 at 1:27 PM

To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>

Cc: "Stephanie S. Carter P.G." <sscarter@blm.gov>, "Erickson - DNR, Wally" <wally.erickson@state.co.us>, Tony Adamic <tony.adamic@fremontco.com>, Sterling Rife <sterling.rife@fremontco.com>, Don Moore <don.moore@fremontco.com>, Matt Koch <matt.koch@fremontco.com>

Hi Tim,

Attached are the documents addressing our deficiencies in the above-referenced letter, as well as revised maps. Let me know if you need anything else. Also, will you need actual hard copies of the maps, or is this email response sufficient?

Thank you,

Annette Ortega

Phone: 719-276-7430

Fax: 719-275-2120

Annette.ortega@fremontco.com

Nothing leaves us more hollow than being full of ourselves. We have no greater burden than our own egos. ~Beth Moore

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From: Cazier - DNR, Tim [mailto:tim.cazier@state.co.us]

Sent: Monday, March 26, 2018 12:38 PM

To: Annette Ortega

Cc: Stephanie S. Carter P.G.; Erickson - DNR, Wally

Subject: M-2018-010 Preliminary Adequacy Review Letter

Annette,

A hard copy of the attached pdf file will be sent with today's mail to Tony Adamic.

Please contact me if you have any questions.

Tim Cazier, P.E.

Environmental Protection Specialist

P 303.866.3567 x8169 | F 303.832.8106 | C 303.328.5229

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tim.cazier@state.co.us | www.mining.state.co.us

6 attachments



Exhibit A Legal and Location.doc
634K



Exhibit C MINING PLAN.doc
639K



FCHWY69CUP.pdf
1605K



FCHWY69MP.pdf
1654K



FCHWY69RP.pdf
1697K



Exhibit D RECLAMATION PLAN.doc
637K