

STATE OF
COLORADO

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

Exhibit C (Ackerman Pit)

1 message

Marcy Brossman <ccadmin@rebeltec.net>
To: Tim Cazier <tim.cazier@state.co.us>

Thu, Aug 8, 2019 at 10:27 AM

Tim,

I apologize that I forgot to attachment Exhibit C in my adequacy response enclosures. Please find the revised Exhibit C attached. As for the Exhibit E, there will be no changes to the original map, just description in the Exhibit E description. The revised Exhibit E was included in the adequacy response letter with enclosures. Please let me know if you need anything further.

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EXHIBIT C

MINING PLAN

- (a) Mining of the sand and gravel deposit is scheduled to commence approximately August 1, 2019 or once application is approved with the Division of Reclamation, Mining and Safety and end approximately December 31, 2029 or later if pit resources are still available. This proposed pit is intended to be an intermittent operation as defined in C.R.S. 34-32.5-103(11)(b) since construction material reserves will not be mined for more than 180 days per year. Measures will be taken to comply with reclamation and other necessary activities as established by the board to maintain the operation in a nonproducing state.
- (b) The estimated depth to which soil, suitable as a plant growth medium, will be salvaged for use in the reclamation process and will be approximately 5 inches. Topsoil will be stripped in phases to prevent erosion and stockpiled from the active mining area, mine traffic and any type of stream channel or drainage way. Approximately 2000 cubic yards of topsoil will be stockpiled on site. Topsoil will be stabilized with a vegetative cover until used in reclamation. Sloping of this stockpile will be no steeper than 3H:1V, and the slopes may be mulched with straw to prevent wind and water erosion. Stockpiles will likely be seeded with a suitable cover crop such as straw to minimize weed production.
- (c) The subsoil may contain quaternary alluvium and/or sedimentary waste rock to be removed to reach the deposit. The material will likely be many inches below the surface, and the thickness of overburden or quantity of waste rock is hard to determine until mining activity occurs. This overburden will be separately stockpiled in the same manner as topsoil mentioned in the above paragraph b.
- (d) The thickness of the sand and gravel deposit is substantial, ranging up to 72 inches in depth.
- (e) An access road will be built off of County Road U. There will be no structures erected. Sand and gravel material will either be stockpiled or loaded directly onto county trucks for use on county roads only.
- (f) No disturbances, such as benches or impoundments will occur. There will be no improvements. Material stockpile dimensions will be determined to facilitate 3H:1V.
- (g) A haul road will be developed from County Road U to the active mining area. The haul road may need periodic grading to accommodate heavy truck traffic. The haul road will be a trail road, so it will be very minimal in width dimension. No drainage or runoff issues associated with this location.
- (h) There will be no water used in conjunction with the mining operation.

- (i) The pit will not intercept any groundwater due to its slope and water runoff. Ponds of water may occur for a short period of time after a significant rainfall. No detrimental effects of quality are anticipated. The County will stay within two feet above the seasonal high groundwater elevation.
- (j) Applicable water laws should not be affected. Cheyenne County, as a political subdivision of the State of Colorado, will always adhere to Colorado Water laws regarding injury to existing water rights.
- (k) Any exposed refuse encountered will be disposed of properly in the Cheyenne County Landfill if warranted. Acid or toxic materials will be carefully analyzed and disposed of according to all local, state, and federal rules and regulations. If acid or toxic materials are found, Cheyenne County will initially contact the Division of Reclamation, Mining and Safety as well as the local and state health departments for their expertise in dealing with situations such as this.
- (l) There will be no disturbance to hydrologic balance. Reclamation will be consistent with the future land use of native pasture ground. Cheyenne County, as Operator, does not intend to interrupt any of the groundwater sources. Operator intends to maintain the proposed excavation depth of 15 feet. If water accumulates in the pit, two possible actions will be taken. 1) The operator contends that near the pit there is a dry stream bed, and if rainwater collects it will naturally flow out of the pit in accordance with the natural direction of the stream. 2) If the collected water does not flow out of the pit naturally, the operator intends to manually pump the water out of the pit. A berm will be formed in buffer area on south side of pit to minimize the potential for storm water flow from creek.
- (m) Sand and gravel deposits may be stockpiled on the site for use on county roads. There will be no on-site screening, crushing, asphalt, mulching, leaching, or mixing.
- (n) Primary commodity to be mined is sand and gravel for use on county roads. No secondary commodities will be mined.
- (o) No incidental products will be mined.
- (p) There will not be any explosives used in conjunction with the mining or reclamation.