




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Section 20 Gravel Mine	MINE/PROSPECTING ID#: M-2022-001	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Preoperation Inspection	INSPECTOR(S): Peter Hays	INSP. DATE: March 3, 2022	INSP. TIME: 11:30
OPERATOR: Red Tierra Equities, L.L.C.	OPERATOR REPRESENTATIVE: Kyle Regan	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Pre-Operation Inspection	BOND CALCULATION TYPE: None	BOND AMOUNT: No Bond Held	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 1, 2022	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This was a pre-operational inspection of the proposed Section 20 Gravel Mine conducted by Peter Hays and Connor Drinkard with the Division of Reclamation, Mining and Safety (Division/DRMS). Mr. Kyle Regan with Civil Resources, LLC representing Red Tierra Equities, LLC was present during the inspection.

The 112 construction materials permit application was received by the Division on January 3, 2022. The application was deemed complete on February 9, 2022. The Applicant published public notice as required by Rule 1.6.2(d) and Rule 1.6.5(1) for four consecutive weeks. The last notice was published on March 17, 2022. The public comment period for the application ended on April 6, 2022. One (1) letter of objection to the application was received by the Division during the public comment period. The required notice signs were posted around the perimeter of the site as required by Rule 1.6.2(b).

The Section 20 Gravel Mine is a proposed 631.58 acre construction materials site divided into eight (8) mining cells; Cells 1-8. Each mining phase is approximately 25-30 acres in size. The Operator intends to mine multiple phases concurrently in order to obtain a range of material for production. The Operator estimates the size of the areas to be worked at one time will range from 25 to 120 acres. The proposed mine site is currently used agricultural purposes. The site is located approximately 1 mile northwest of Gilcrest, CO in Weld County.

The initial disturbance at the site will be to strip overburden in the eastern portion of Cell 8 to establish the processing plant footprint. The first phases of the fresh water pond and the siltation pond will be stripped of overburden and mining will commence in these phases once the processing plant is established. After the initial preparation of the processing plant, fresh water pond and siltation pond, the concrete batch and asphalt plant areas will be established and constructed. Roads will be constructed from the entrance to the plant areas. The current house on the west side of the property will be utilized as the office and a shop will be constructed in the early phases of site development. A parking area for employees will be constructed adjacent to the office and shop area.

The proposed Mining Plan states, scrapers will strip topsoil and overburden from a phase and place stockpiles in the processing area. Any excess material not needed for reclamation may be sold or hauled off-site during the life of the mine. There will be no mining below the groundwater table until the slurry wall is complete, tested and approved for each slurry wall lined cell. In the unlined cells, there will be no mining below the groundwater table until an approved Substitute Water Supply Plan (SWSP) has been obtained. Each slurry wall lined phase will be dry-mined using scrapers, bulldozers, front-end loaders, excavators, or similar equipment. The fresh water pond and siltation pond will be unlined and wet mined with excavators.

Topsoil and overburden will be stripped with scrapers or bulldozers and stockpiled in segregated piles at the edge of the active mine phase. Excavators, front-end loaders, and bulldozers will be used to excavate the material. Haul trucks will be utilized to transport the raw material from the active mine phase to the processing area. Mining will take place at a 3H:1V slope and will be reclaimed at a 3H:1V slope. The Operator may decide to mine at a 1.5H:1V slope and reclaim at a 4H:1V slope in which case the Mine Plan will be updated through the Technical Revision process. The slope stability analysis was conducted at the worst case scenario of a 1.5H:1V slope.

The proposed post-mining land use for the site is developed water resources. The majority of the site, Cells 3-8 will be reclaimed to lined water storage reservoirs. The mined area in the silt pond and the southwest corner of Cell 6 may be backfilled and used as future commercial sites or may be converted to a water storage facility.

The proposed mine site was observed during the inspection. The site was observed from Hwy 60, WCR 44, WCR 29, WCR 42 (14th Street) and from the existing oil and gas roads and agricultural field roads on the site.

The following application topics were discussed during the inspection:

- Weed Control Plan
- Groundwater model
- Geotechnical stability exhibit
- Update Exhibit C-3 (structures within 200') to include CWCWD water lines, Century Link Fiber Optic, the SunShare Community Solar Farm and call out the DCP line in the southwestern section of the property.
- Add acreage for northern parcels in Exhibit A
- Commit to sending groundwater monitoring data with annual report
- Update Exhibit M (Permits) to include SEO's SWSP
- Update Exhibit D (Mine Plan) to commit to providing slurry wall design

The Division's permit application adequacy review letter was sent to the Applicant on April 19, 2022. The Operator submitted a response to the adequacy review letter on June 8, 2022. The response is currently under review by the Division. The current decision date for the application is August 18, 2022, following the approval of a decision date extension requests from the Applicant on April 18, 2022 and June 27, 2022.

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303.866.3567 x 8124, or by email at peter.hays@state.co.us.

Inspection Contact Address

Drew Damiano
Red Tierra Equities, L.L.C.
8301 East Prentice Avenue, Suite 120
Greenwood Village, CO 80111

Ec: Jared Ebert, DRMS
Kyle Regan, Civil Resources, LLC

PHOTOGRAPHS



Section 20 Gravel Mine notice sign



View of the site from the house on Hwy 60 looking southeast



View of the site from Hwy 60 and CR44 looking south



View of the site from Hwy 60 and CR44 looking southeast



View of the site from Hwy 60 and CR44 looking east



View of the site from CR29 and CR44 looking south



View of the site from CR29 and CR44 looking southwest



View of the site from CR29 and CR44 looking west



View of the site from CR42 looking north



View of the site from CR42 and Hwy 60 looking north