



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: Sunset Industrial Pit	MINE/PROSPECTING ID#: M-2023-001	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Pre-operation Inspection	WEATHER: Clear	INSP. DATE: March 30, 2023	INSP. TIME: 11:00
OPERATOR: J-2 Contracting Company	OPERATOR REPRESENTATIVE: Chris Leone, JC York	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Pre-operation Inspection	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: No Bond Held	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Peter Hays Joel Renfro	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 16, 2023	

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>Y</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 Sunset Industrial Pit conducted by Peter Hays and Joel Renfro with the Division of Reclamation, Mining and Safety (Division/DRMS). Mr. Chris Leone with J-2 Contracting Company and Mr. J.C. York with J&T Consulting, Inc. were present during the inspection.

The Construction Regular Operation Reclamation Permit Application (112c) was received by the Division on January 10, 2023. The application was deemed complete by the Division on January 26, 2023. The current decision date is April 26, 2023. The Applicant published public notice as required by Rule 1.6.2(d) for four (4) consecutive weeks. The last notice was published on March 3, 2023. The public comment for the application ended on March 23, 2023. No objections were received by the Division.

The site is a proposed 85.17 acre construction materials operation. The site is located east of Greeley, CO in Weld County. The site is located east of WCR 43 and north of 8th Street. The Applicant proposes a maximum disturbance of 72.10 acres. The site is divided into two (2) phases, Phase 1 and Phase 2. Phase 1 consists of the southern two-thirds (2/3) of the site with a stockpile and processing area located along the eastern section of the phase and a recharge pond located in the southeast corner of the phase. Phase 2 consists of the northern one-third (1/3) of the site with the batch plant area located in the northwest corner and a stockpile area located in the northeast corner of the phase. The proposed mine site is currently used as cropland and residential. The notice sign was observed during the inspection as required by Rule 1.6.2(b). The proposed mine site was observed from the existing access roads on the property.

Aggregate will be the primary product produced from the Sunset Industrial Pit. The intended use for the sand and gravel is for road base and construction aggregates. The drilling and testing verified the site contains a significant deposit of sand and gravel. The depth of the overburden material ranges from 0 to 14 feet below grade. The depth to groundwater ranges from 18 to 40 feet within the permit boundary as measured in the site monitoring wells. The site aggregate will be mined from a depth of 40 to 112 feet thus exposing groundwater to the atmosphere.

The aggregate will be dry mined with the construction of slurry walls around the perimeter of Phases 1 and 2. The mining will not expose groundwater prior to the slurry wall being constructed around each phase. Dewatering trenches will be excavated around the perimeter of each mining area prior to mining operations. The depth of the ditches will vary as the mining progresses deeper into the alluvium in order to maintain the groundwater level below the active mining bottom surface. The dewatering ditches will flow to a collection pond, from which the water will be pumped and discharged into recharge areas where overflow will reach a culvert which crosses 8th Street into the Ogilvy Ditch and ultimately reach the Cache La Poudre River.

As mining progresses, topsoil and overburden will be stripped to expose the aggregate product below. All topsoil and overburden materials will be used on-site for reclamation. Long-term stockpiling of these materials is not anticipated by the Operator. Overburden stockpiles will be located within the proposed mining area. The stockpiles will be placed parallel to the floodplain to mitigate impacts to the floodplain.

The mining of the aggregate will progress down to the underlying bedrock. The mining face for Phases 1 and 2 will have a 3H:1V slope to bedrock or the bottom of the future reclaimed reservoir. The processed aggregate material will be temporarily stockpiled near the portable processing plant.

The Applicant will have an approved substitute water supply plan and well permit prior to exposing groundwater. The substitute supply plan will be updated annually to account for water consumed due to exposing groundwater by the mining operation. An NPDES permit will be obtained from the Water Quality Control Division with the CDPHE site prior to discharging any groundwater from the site.

The proposed post-mining land use is developed water resources. Water storage reservoirs will be the final reclaimed use for the Sunset Industrial Pit. The slurry walls will be keyed into the bedrock material and extend upward through the height of the alluvium at the bench depicted in the Mining Plan. A clay liner will be installed above the slurry wall to complete the liner design/construction from the bench elevation to three (3) feet above the reclaimed normal water surface elevation. Portions of mining areas will be reclaimed as native areas, which will be re-seeded with native vegetation. The majority of the mining areas will be reclaimed as water storage reservoirs. The remaining area within the proposed permit boundary will consist of reservoir shoreline, unimproved access roads around the reservoirs, and reclaimed vegetated land.

All reservoir slopes will be reclaimed to at least a 3H:1V final grade. Scrapers, dozers and compactors will be used to shape the reclaimed slope material along the reservoir perimeters to achieve the final grade. A 95 percent compaction will be achieved to ensure adequate integrity of the clay liner above the bench. The replacement of topsoil and revegetating above the expected reservoir water level will follow grading operations.

The site vegetation consisted of native grasses and residential yards in the northern portion of the site and an agricultural field in the southern portion of the site. All utilities along WCR 8 and through the site appear to have been identified by the Applicant. No problems were noted by the Division during the inspection.

An adequacy review letter was issued by the Division on April 6, 2023. The Division is awaiting a response to the letter from the Applicant.

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

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Ec: Jared Ebert, DRMS
J.C. York, J&T Consulting, Inc.

PHOTOGRAPHS



Sunset Industrial Pit notice sign



View of the site from the southwest corner looking east



View of the site from the southwest corner looking northeast



View of the site from the northwest corner looking east



View of the site from the northwest corner looking southeast



View of the site from the northwest corner looking south



View of the site from the north side looking south



View of the site from the lift station looking northwest



View of the site from the lift station looking west



View of the culvert under 8th Street in the southeast corner of the site to be used for dewatering