



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

The Division of Reclamation, Mining and Safety has 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: Elmer Stone Gravel Pit	MINE/PROSPECTING ID#: M-1978-080	MINERAL: Sand and gravel	COUNTY: Lincoln
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: December 19, 2017	INSP. TIME: 11:50
OPERATOR: Lincoln County	OPERATOR REPRESENTATIVE: Trey James	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$0.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: January 8, 2018	

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

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

OBSERVATIONS

This inspection was conducted as part of the regular monitoring program. The Permittee (Lincoln County) was represented by Mr. Trey James during the inspection. The Elmer Stone Gravel Pit is accessed from Lincoln Co Rd T and is located approximately 2 miles east of State Hwy 71 (about 7 miles west of Karval). This is a 110c sand and gravel mine. It was not operating at the time of the inspection.

Availability of Records: Annual fees are paid through May 2017. The previous inspection was on January 29, 2014. The approved post-mine land use is general agriculture. There are no open infractions.

Backfilling and Grading: Product is mined by pushing material from the top at approximately 3H:1V. As such backfill material is not likely to be needed for reclamation.

Excess Spoil and Dev. Waste: No overburden piles were observed.

Financial Warranty: This pit is permitted by Lincoln County, therefore no bond is required by the Division.

Fish and Wildlife: No impact to fish or wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. Google Earth was used to measure the disturbed area, which was estimated to be approximately 6.7 acres. High walls were estimated to vary between 30 and 40 feet in height and appeared stable with the exception of some rilling and gulying in the active face (see **Photo 1**). The mine plan is to continue working towards the east. However, site representatives indicated material is running out, as evidenced by the lack of room between the topsoil stockpile on the crest of the east end of the pit and the access road east of the stockpile. We discussed the option to submit a conversion application to a 112c permit and expand the pit towards the south where acceptable material is expected to exist. Milled asphalt was observed stockpiled on the south side of the pit floor (see **Photo 2**). The storage of milled asphalt was approved by the Division as part of TR-04.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on boundary markers and Google Earth review.

Processing Waste: No processing waste was observed.

Roads: The haul and access roads are included in this 110c permit boundary. Given the coarse nature of the material these roads are not likely to be a source of sediment that could be tracked to the adjacent paved road.

Reclamation Success: Reclamation has begun on the north side of the west end of the pit (see **Photo 2**). Grading appears to be near 3H:1V and some topsoil placement has been completed. Any established vegetation is expected to be a result of natural progression.

Revegetation: Some vegetation appears well established on the northwest highwall (see **Photo 3**). No noxious weeds were observed.

Sediment Control: Some minor erosion problems were observed on the south facing slopes on the middle of

the pit where the area was reported to have been topsoiled last spring. Heavy rains eroded the newly placed topsoil (see **Photo 4**). The Operator should consider implementing BMPs (best management practices) to help keep topsoil in place until the vegetation is established.

Signs and Markers: The permit sign was properly posted (see **Photo 5**) and T-post boundary markers were observed to delineate the permit boundary (see **Photo 6**).

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed. Stormwater drains to the pit and infiltrates.

Topsoil: A topsoil stockpile was observed at the crest of the east end of the pit.

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Rills and gullies in the active face (looking NE).

PHOTOGRAPHS (cont.)



Photo 2. Milled asphalt stockpile, reclaimed area in background (looking WNW).



Photo 3. Some well established vegetation on the northwest highwall (looking NW).

PHOTOGRAPHS (cont.)



Photo 4. Eroded recently placed topsoil where BMPs are recommended (looking NE).



Photo 5. Permit sign near entrance.

PHOTOGRAPHS (cont.)



Photo 6. Typical T-post boundary marker (SW corner, looking NE).

Inspection Contact Address

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ec: DRMS file