




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: Geroux Gravel	MINE/PROSPECTING ID#: M-2000-059	MINERAL: Sand and gravel and borrow material for construction	COUNTY: Custer
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy Cazier	INSP. DATE: June 18, 2019	INSP. TIME: 16:15
OPERATOR: Geroux Gravel	OPERATOR REPRESENTATIVE: Andy & Becky Kagan	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE:	BOND AMOUNT: \$24,500.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 31, 2019	

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>Y</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>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</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>Y</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 by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Kagan & Son, LLC) was represented by Andy and Becky Kagan during the inspection. The Geroux Gravel site is located approximately 0.5 mile south of Hermit Rd/CR 160 on the south side of Westcliffe, and 0.25 mile west of Hwy 69. This is a 110c sand, gravel and borrow mine. It was not operating at the time of the inspection.

Availability of Records: Annual fees are paid through February 2019. The previous inspection was on August 27, 2015. The approved post-mine land use is rangeland. There are no open infractions. Both the surface and minerals are privately owned.

Backfilling and Grading: Sufficient backfill material appeared to be available for the open trench (see **Photo 1**). Other disturbed areas appeared to be near the required 3H:1V final slopes (see **Photo 2**).

Excess Spoil and Dev. Waste: An overburden pile was observed on the north side of the open trench and appeared stable.

Financial Warranty: The \$24,500 bond held by the Division is adequate for the observed mine disturbance.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit. A small seep was observed about a third of the way from the south end of the permit boundary (see attached **Post Inspection Map**). The area downgradient of the seep was well vegetated with emergent plants (see **Photo 3**), but no ponding of water was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. The maximum allowed disturbed area is 8.9 acres. Google Earth was used to measure the disturbed area, which was estimated to be approximately 6.6 acres, based on 2016 imagery. The aforementioned trench was estimated to be between 6 and 8 feet deep and appeared stable (see **Photo 1**).

Off-site Damage: The operation was confined to the permit boundary, based site observations.

Processing Waste: No processing waste was observed.

Roads: Haul and access roads did not appear to be a source of sediment that could be tracked offsite.

Reclamation Success: The roughly southern half of the pit is in final reclamation. The slopes had been graded to 3H:1V or flatter, topsoil replaced and seeded (see **Photo 4**).

Revegetation: Mrs. Kagan indicated the seed applied was mostly red wheat. She stated they've had trouble getting vegetation established near the expression of the seep. A white residue was observed in this area indicative of salts being present in the seep water. The DRMS recommends seeding with alkali tolerant plants and not using wood chips. The only noxious weeds were observed were small amounts of cheat grass, a List. Given cheat grass is a List C species and is prevalent throughout Custer County, its presence is not cited as a problem.

Sediment Control: No erosion problems were observed and no BMPs were needed at the time of the inspection.

Support Facilities On-site: No equipment was observed on site.

Signs and Markers: The permit sign was properly posted (see **Photo 5**) and the permit boundary is completely fenced (see **Photo 2**). Each fence corner post location was collected using a handheld Trimble Juno 3B GPS unit. Locations are shown on the attached **Post Inspection Map**.

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No stormwater retention or oil / fuel spills were observed.

Topsoil: Topsoil had been stripped from the trench and stockpiled on the south side of the trench (see **Photo 1**).

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. Active trench – topsoil on left, overburden on right (looking west).

PHOTOGRAPHS (cont.)



Photo 2. Graded highwalls on south end of permit area & typical boundary fence (looking south).



Photo 3. Well vegetated area downgradient of seep (looking east).

PHOTOGRAPHS (cont.)



Photo 4. Southern end of permit area – sloped and seeded (looking south).



Photo 5. Permit sign.

Inspection Contact Address

Andy & Becky Kagan
Geroux Gravel
555 Ernest Ave
Westcliffe, CO 81252

Enclosure

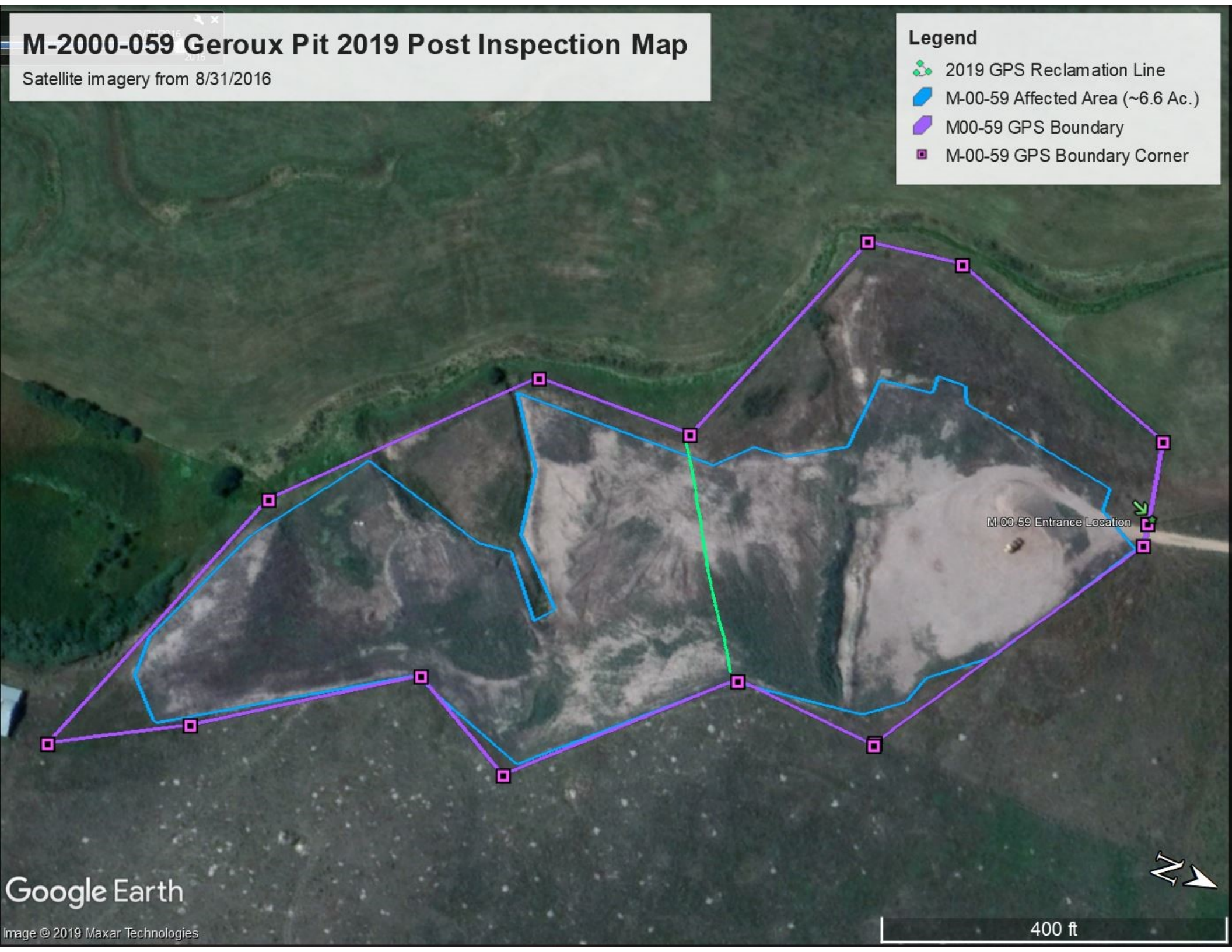
ec: DRMS file

M-2000-059 Geroux Pit 2019 Post Inspection Map

Satellite imagery from 8/31/2016

Legend

- 2019 GPS Reclamation Line
- M-00-59 Affected Area (~6.6 Ac.)
- M00-59 GPS Boundary
- M-00-59 GPS Boundary Corner



Google Earth

Image © 2019 Maxar Technologies

400 ft