




## 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.

<b>MINE NAME:</b> Kauffman Pit	<b>MINE/PROSPECTING ID#:</b> M-1978-327	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Larimer
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Amy Eschberger	<b>INSP. DATE:</b> November 17, 2020	<b>INSP. TIME:</b> 14:00
<b>OPERATOR:</b> Jake Kauffman & Son, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Troy Kauffman, Dan Giroux	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$14,727.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> November 25, 2020	

### 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>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</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 normal monitoring inspection of the Kauffman Pit (Permit No. M-1978-327) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division) while on site to inspect the operator's adjacent permitted site, the Wagner/Kauffman Pit #3 (Permit No. M-1999-069). The operator was represented by Troy Kauffman and Dan Giroux during the inspection. The site is located approximately two miles east of Loveland, CO in Larimer County. The site can be accessed from the west off Co Rd 9E and passing through the operator's commercial yard. The affected lands are owned by the operator. **Photos 1-10** taken during the inspection are included with this report.

This is a 112c operation permitted for 75.1 acres to mine sand and gravel in an area just north of the Big Thompson River (see enclosed Google Earth image showing approved permit area). Mining areas were dewatered prior to excavation. The maximum mining depth was approximately 15 feet. Mined material was processed on site. The site was mined generally from south to north, leaving a series of unlined ponds. According to the approved Substitute Water Supply Plan (SWSP; for the period of January 1, 2020 through December 31, 2020), a total of 36.2 acres of groundwater surface was exposed on site prior to January 1, 1981. Two of the unlined ponds are located within the approved permit area, with a total estimated surface area of 34.4 acres. A small unlined pond located just west and outside of the permit area is approximately 1.3 acres in size. The total surface area of exposed groundwater on site is 35.7 acres, which is less than the pre-1981 amount of 36.2 acres. Additionally, the existing pond locations appear to be within the boundaries of the pre-1981 areas of exposure. Since the operator backfilled the site (in 2012) so that only pre-1981 groundwater areas remain, there are no long-term injurious stream depletions from mining related exposure of groundwater, and the operator is considered to be in compliance with the Office of the State Engineer (SEO). Under the approved SWSP, the operator is approved to pump up to 5.81 acre-feet of water from one of the unlined ponds on site for dust control purposes.

The approved post-mining land use for the site is a combination of dryland grass pasture and industrial/commercial use. The approved reclamation plan for the site, last revised in 2012 through Technical Revision No. 6 (TR-6; see enclosed reclamation plan map), includes leaving two unlined ponds with shoreline slope gradients ranging from 2.5H:1V to 5H:1V, two outdoor storage areas located adjacent to the ponds which will be used by the operator's adjacent commercial yard, and a recycled materials plant located in the eastern portion of the permit area which will continue to operate after reclamation. The recycled materials operation may eventually cover an estimated 13.2 acres (current size estimated at 9 acres). The proposed storage areas total approximately 12.5 acres, but the southern storage area may increase in size as the operation continues backfilling the eastern edge of the southern pond. As mentioned above, additional backfilling of exposed groundwater is not required in order for the site to be in compliance with the SEO. Pond shorelines and areas around the perimeter of the ponds will be revegetated to dryland grass pasture. All access roads will remain after reclamation. The Division approved the release of 9.1 acres of dryland grass pasture located east of the recycled materials plant in 2017, through Acreage Reduction No. 2 (AR-2).

During the inspection, the recycled materials plant was active. Several stockpiles of imported and processed materials are stockpiled in this area, along with various pieces of processing equipment. The two ponds have been reclaimed in accordance with the approved reclamation plan, as their slopes have been graded to the approved final configuration and are stable with good vegetative cover (including numerous mature trees). Only the portion of the eastern shoreline of the southern pond where backfilling continues, and the portion of the southern shoreline of the northern pond adjacent to the outdoor storage area, do not have an established vegetative cover. However, according to the reclamation plan map approved with TR-6, it appears the reclamation plan does not require revegetation of the shorelines adjacent to the outdoor storage areas.

The two storage areas are currently being leased out for industrial/commercial use. The southern storage area is currently utilized for storage of various types of materials (e.g., concrete debris, rock, lumber) and equipment. It appeared that very little additional backfilling, if any, has occurred along the eastern shoreline of the southern pond since the Division's last inspection on July 11, 2019. The northern storage area is currently leased out for truck and equipment storage.

Mining was completed at the site many years ago. The site has been reclaimed in accordance with the approved reclamation plan and post-mining land use, and is considered releaseable at this time. However, if any portion of the reclaimed areas were to be re-disturbed (e.g., by flooding), the financial warranty would need to be increased to cover costs for reclaiming these disturbed areas. Also, if the operation were to accidentally disturb land outside the approved permit boundary, this would be considered "offsite damage". Therefore, the Division believes it would be in the operator's best interest to request a full release of the permit.

This concludes the report.

*Any questions or comments regarding this inspection report should be forwarded to Amy Eschberger at the Colorado Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, via telephone at 303-866-3567, ext. 8129, or via email at [amy.eschberger@state.co.us](mailto:amy.eschberger@state.co.us).*

**PHOTOGRAPHS**



**Photo 1.** View looking south across recycled materials plant which operates in eastern portion of permit area.



**Photo 2.** View looking southeast across recycled materials plant which operates in eastern portion of permit area.





**Photo 3.** View looking southeast across outdoor storage area located adjacent to and east of southern pond. This area is currently utilized for storage of various materials (e.g., concrete debris, rock, timber) and equipment.



**Photo 4.** View looking east across outdoor storage area located adjacent to and east of southern pond. This area is currently utilized for storage of various materials (e.g., concrete debris, rock, timber) and equipment.





**Photo 5.** View looking north across outdoor storage area located adjacent to and east of southern pond. This area is currently utilized for storage of various materials (e.g., concrete debris, rock, timber) and equipment.



**Photo 6.** View looking south across active backfill area along eastern shoreline of southern pond.





**Photo 7.** View looking west across southern pond from its eastern shoreline. All shorelines of this pond, except for the active backfill area along the eastern shoreline, are reclaimed with slopes at 2.5H:1V or flatter and good vegetative cover.



**Photo 8.** View looking north across larger northern pond from its southern shoreline. All shorelines of this pond, except for the portion along the outdoor storage area, are reclaimed with slopes at 2.5H:1V or flatter and good vegetative cover.





**Photo 9.** View looking southwest across outdoor storage area located adjacent to and south of northern pond. This area is currently leased out for truck and equipment storage.



**Photo 10.** View looking southeast across outdoor storage area located adjacent to and south of northern pond. This area is currently leased out for truck and equipment storage.



**Inspection Contact Address**

Troy Kauffman  
Jake Kauffman & Son, Inc.  
502 S County Road 9E  
Loveland, CO 80537

Encls: Google Earth image of site showing approved permit area  
Approved reclamation plan map

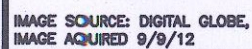
CC: Dan Giroux, Terramax, Inc.  
Michael Cunningham, DRMS

**M-1978-327 / Kauffman Pit / Jake Kauffman & Son, Inc. (112c)**

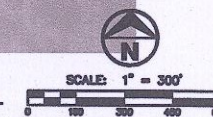
Red Outline = 75.1 acres = Approved Permit Area (location approximated based on approved maps)  
(Image data from 10/15/20)







DATE \_\_\_\_\_



MAY 23 2017

DIVISION OF RECLAMATION  
MINING & SAFETY

**JAKE KAUFFMAN and SON, INC.**  
**LARIMER COUNTY, COLORADO**

M-78-327

M-78-327  
AREA REDUCTION MAP EXHIBIT - DRAFT  
EXHIBIT F - FINAL RECLAMATION PLAN  
WITH FINAL POST-MINING AFTER-USES

[illegible]

**TERRAMAX, INC.**  
CONSULTING ♦ ENGINEERING

4220 GOLF VISTA DRIVE  
LOVELAND, COLORADO 80537  
DANGIROUX@TERRAMAX.US  
(303) 929-3194

Plot Date: 05/15/17-1:49pm, Plotted by: Luke, Drawing Path: N:\Shop\AcPublish\_8478\Drawing Name: Kauffman M-78-327 Reduction Area 2017.dwg