




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: St. Vrain Lakes, Filing 1, Slurry Wall	MINE/PROSPECTING ID#: M-1982-015	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Surety Release Inspection	INSPECTOR(S): Peter Hays	INSP. DATE: December 3, 2020	INSP. TIME: 10:00
OPERATOR: Carma Bayshore LLC	OPERATOR REPRESENTATIVE: None	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Surety Release Requested	BOND CALCULATION TYPE: None	BOND AMOUNT: \$115,545.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: January 12, 2021	

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>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</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>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</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

The St. Vrain Lakes site was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) to evaluate the final financial and performance warranties release request (SL-04) filed with the Division on November 13, 2020. The Division is required by Rule 4.17.2(2) to inspect the site within sixty (60) days to determine if the Permittee complied with all applicable requirements. The Permittee was notified of the inspection, but a representative was not present during the inspection due to Covid restrictions. The site was previously inspected by the Division on December 10, 2015.

The Division will approve the final financial and performance release warranties request (SL-01) based on the observations from this inspection.

The site is an 112c operation permitted for 169.60 acres. The approved post-mining land use for the site is developed water resources. Mining activities are complete and the site is in final reclamation. The site was last active in 2006 according to the 2019 annual report. The reservoirs contained water at the time of the inspection. The residential development has continue to expand north of the site since the last inspection.

As noted during the last inspection when the reservoirs were dewatered, all slopes were regraded to the approved 3H:1V slope. The shoreline slopes observed during this inspection were stable with no erosion features noted during the inspection. The upland vegetation consisted of well-established dormant grass varieties, including western wheatgrass, thickspike wheatgrass, blue grama, sideoates grama, green needlegrass, buffalograss and swithgrass. The wetland and shoreline vegetation consisted of dormant well-established vegetation, including western wheatgrass, saltgrass, slender wheatgrass, swithgrass, willows and cattails. Landscaping trees were observed along the west, east and north sides of the reservoirs. A park and amphitheater has been constructed in the northwest corner of the eastern reservoir. A concrete or gravel surfaced path has been constructed around the reservoirs for use by the residences of the housing development. Noxious weeds including, kochia and yellow sweet clover were observed during the inspection. The area between the two reservoirs was being interseeded during the inspection. Following the inspection, Mr. Kris Rabida with WSP representing the Permittee stated the site was interseeded in the spring and fall as part of the residential development maintenance program. The site is also treated for noxious and annual weeds by the development company according to Mr. Rabida.

The five (5) spillways constructed in 2015 as part of the 2013 flood repair work were observed during the inspection. Four (4) of the spillways (#1, #2, #3 and #5) are located along the south side of the site adjacent to the St. Vrain River. The last spillway (#4) is located between the eastern and western reservoirs. The spillways were stable and appeared to be constructed according to the approved design.

The original slurry wall was approved by the Division of Water Resources on September 7, 2007. The slurry wall was breached during the 2013 flood event. The Operator submitted a slurry wall liner approval letter dated December 3, 2015 from the Division of Water Resources for the repaired slurry wall with the final release request.

The required mine sign and boundary markers were not observed during the inspection.

The Division holds a financial warranty in the amount of \$115,545.00. The financial and performance warranties will be release by the Division at the end of the 30-day appeal period pursuant to Rule 4.17.2(5).

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at 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

PHOTOGRAPHS



View of the site from the northwest corner looking east



View of upland vegetation in the northwest corner of the site



View of shoreline vegetation in the northwest corner of the site



View of the site from the southwest corner looking east



View of spillway #1 from the west side looking east



View of the vegetation in the southwest corner of the site



View of spillway #2 from the west side looking east



View of the upland vegetation in the southeast corner of the western reservoir



View of spillway #4 from the north end looking south



View of the vegetation along the south side of the western reservoir



View of the vegetation along the south side of the western reservoir



View of the park located in the northwest corner of the western reservoir



View of the vegetation along the south side of the western reservoir



View of the vegetation in the southwest corner of the western reservoir



View of spillway #5 from the west side looking east



View of the western reservoir from the east side looking west



View of the landscaped vegetation located in the northwest corner of the western reservoir



View of the vegetation in the northwest corner of the western reservoir



View of the seeded area located between the eastern and western reservoirs



View of the site from the northeast corner of the eastern reservoir looking west