




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: Cresson Project	MINE/PROSPECTING ID#: M-1980-244	MINERAL: Gold	COUNTY: Teller
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: May 21, 2019	INSP. TIME: 09:45
OPERATOR: Cripple Creek & Victor Gold Mining Company	OPERATOR REPRESENTATIVE: Justin Bills & Katie Blake	TYPE OF OPERATION: 112d-3 - Designated Mining Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$209,491,188.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 5, 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>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</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>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

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

OBSERVATIONS

Tim Cazier (DRMS) conducted a regular monitoring inspection of the site on Tuesday, May 21, 2019. Mr. Justin Bills and Ms. Katie Blake represented CC&V during the inspection. The planned inspection agenda included the following facilities and areas:

- High Grade Mill (HGM);
- Arequa Gulch Valley Leach Facility (AGVLF, a.k.a. VLF 1), including HVSCS and LVSCS water levels;
- Squaw Gulch Valley Leach Facility (SGVLF, a.k.a. VLF 2), including HVSCS and LVSCS water levels;
- Recent Spill Areas at: Buckley Emulsion Facility, ADR 2 & VLF 2;

Inspections of the Valley Leach Facilities (VLFs) for ponded solution were postponed due to approximately eight inches of snow accumulation Monday night.

High Grade Mill: Mr. Bills and Ms. Blake accompanied the DRMS on the mill exterior walk-around inspection. The purpose was to perform a visual inspection for leaks, spills and secondary containment problems. Both the east and west sides of the mill exterior were inspected, as well as the area around the concentrate storage facility (Con Barn). No problems were observed and little to no snow was observed in the secondary containment areas external to the mill building (See **Photo 1**). The vat leach circuit on the west side of the HGM continued to be offline (since around February 18, 2018).

HVSCS and LVSCS water levels: The high and low volume solution collection system water levels were checked for both the Arequa Gulch Valley Leach Facility (VLF 1) and Squaw Gulch Valley Leach Facility (VLF 2). All water levels were observed to be within acceptable levels (See **Attachment A**). The Pump #1 transducer for the Phase IV LVSCS was observed to be unstable with constant readout fluctuations, all of which were less than the maximum allowable 24 inches. The LVSCS Phase IV Pump #2 transducer was stable with a steady level of 12.4 inches. As such we are not concerned about the water level being too high in Pump #1, but [The DRMS recommends CC&V personnel investigate the cause of the Phase IV Pump Transducer #1 readout fluctuation and perform the necessary maintenance to correct the problem.](#)

No discharge was observed from the VLF 1 south underdrain (See **Photo 2**).

Recent Spill Areas: The overnight snow prevented observations of spill cleanup efforts. However, CC&V personnel explained the circumstances, extents of the spill area and corrective measures taken at the Buckley Emulsion Facility (See **Photo 3**), ADR 2 and VLF 2 (See **Photo 4**).

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. Secondary containment of Process Ore Thickener Tank.

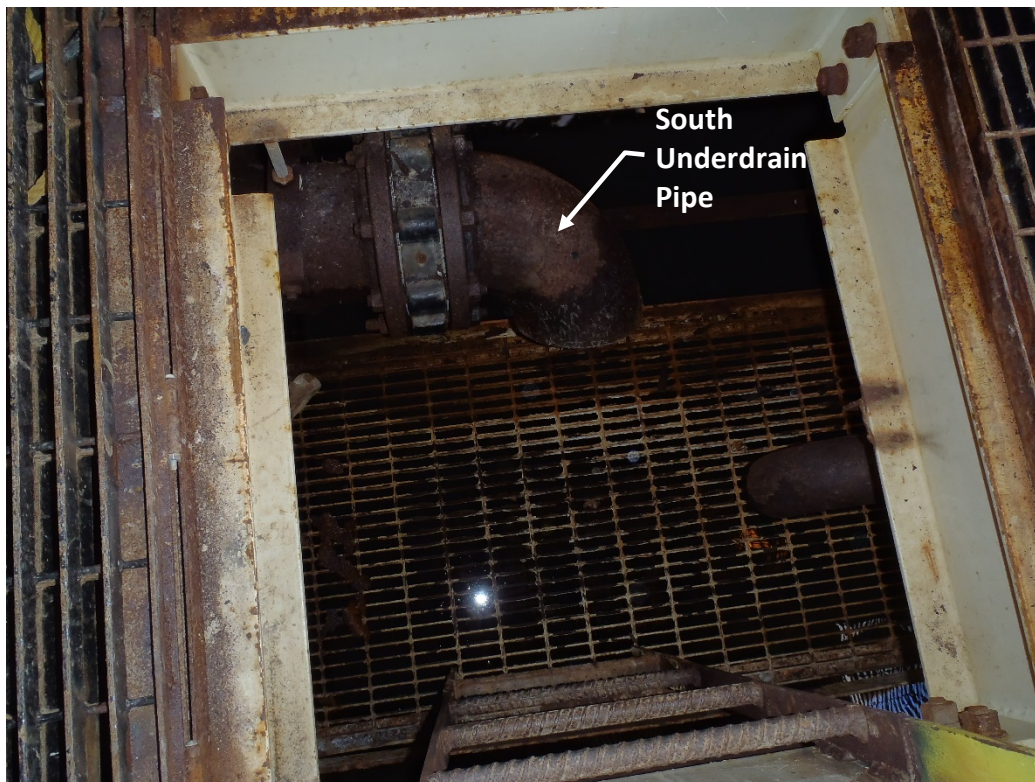


Photo 2. No discharge from South Underdrain pipe.

PHOTOGRAPHS (cont.)



Photo 3. Buckley Emulsion Facility spill location (looking WNW).



Photo 4. VLF 2 pipe valve failure/spill location (looking NNE).

Inspection Contact Address

Mike Schaffner
Cripple Creek & Victor Gold Mining Company
P.O. Box 191
Victor, CO 80860

Enclosure: Attachment A

ec: Michael Cunningham, DRMS
Elliott Russell, DRMS
Patrick Lennberg, DRMS
Amy Eschberger, DRMS
Justin Raglin, CC&V
Justin Bills, CC&V
Katie Blake, CC&V
DRMS file

CC&V VLF Water Level Inspection Readings

Previous Results

Date:

AREQUA VLF:

Phase I HVSC & Pond Piezometers

Note: 80% cap.
@ 53.75 ft

Max. of Pump #299, #300, #301, #302, or #303 (Circle Pump #)

Pond Lvl / XDCR #1

System Press / XDCR #2

Phase I Low Volume Solution Collection

Note: Req'd
< 2 ft

Piezo #1 (HAND)

Piezo #2 (AUTO)

Phase II & III HVSC & Pond Piezometer

Note: 80% @
49.4 ft

Max. of XDCR #4, #5 or #6 (Circle XDCR #)

Piezo (Pipe)

Phase II & III Low Volume Solution Collection

Note: Req'd
< 2 ft

Pump / XDCR #1 (AUTO)

Pump / XDCR #2 (AUTO)

Phase IV High Volume Solution Collection

Note: 80% cap.
@ 56.5 ft

Max. of Pump #307, #308, or #309 (Circle Pump #)

XDCR pipe (#310 Resv'd)

Phase IV Low Volume Solution Collection

Note: Req'd
< 24"

Pump / XDCR #1

Pump / XDCR #2

Phase V High Volume Solution Collection

Note: 80% cap.
@ 36.5 ft

Max. of XDCR #311, #312, #313, or #314 (Circle XDCR #)

Phase V Low Volume Solution Collection

Note: Req'd
< 24"

XDCR #001

XDCR #002

External Pond Low Volume Solution Collection

Note: Req'd
< 24"

Pump / XDCR #1-EXT (AUTO)

Pump / XDCR #2-EXT (AUTO)

Underdrain Discharge Area

Note: 1 l/sec =
15.85 gpm

South Underdrain (S U/D)

4" Pipe Discharge AG 01 Spring Pipe

NPDES Discharge AG 1.5 -001A

North Underdrain (N U/D)

24-inch Solid Pipe

Arequa Gulch Monitor Well Pumpback System

Data first
collected by
DRMS 3/8/12

35A

63B

B63

A35

SQUAW GULCH VLF High Vol. SC:

Note: 80% cap.
@ 94 ft

LIT #88301 (north end)

LIT #88303

LIT #88305

LIT #88307 (south end)

Piezometer-LIT #88314

SQUAW GULCH VLF Low Vol. SC:

Note: Req'd
< 24"

Leachate Pump 1

Leachate Pump 2

	9/27/18	10/30/18	2/14/19	3/21/19	4/23/19	5/21/19	Notes
EPS:	TC1	AME	ERR	TC1	AME	TC1	
TIME:	10:28	11:17	11:48			13:14	
(ft)	53.5	56.2	59.4			57.8	
(ft)	52.9	11.2	59.7			58.0	
(ft)	38.3	15.1	42.5			39.3	system head
TIME:		11:14	11:01			13:03	
(ft)	--	0.66	0.45			0.44	
(ft)	--	0.79	0.83			0.75	
TIME:		11:00	11:11	10:45		13:09	
(ft)	--	34.7	44	44.6		35.2	
(ft)	--	32.7	43.4	44.7		44.6	
TIME:		11:02	11:15	10:50		13:06	
(ft)	--	0.57	0.49	0.58		0.64	
(ft)	--	0.48	0.41	0.44		0.48	
TIME:	11:40	12:07	12:10	12:46	12:05	10:54	
(ft)	30.4	46.1	44.8	43.7	28.5	35.1	
(ft)	38.0	45.9	44.8	44.2	25.1	25.1	
TIME:	11:47	12:11	12:12	12:50	12:07	10:59	
(in)	11.2	15.2	17.2	13.3 to 17.0	16.5	16.4	Jumping a lot
(in)	12.3	12.6	12.5	12.4	12.5	12.4	STABLE Log up to DATE
TIME:		13:25	10:35			12:44	
(ft)	--	31.1	31.1			28.1	
TIME:		13:26	10:36			12:46	
(in)	--	13.72	12.07			15.37	Log up to
(in)	--	15.7	17			15.1	DATE
TIME:			11:00			13:06	
(in)	--	--	13.7			13.2	
(in)	--	--	13.8			7.2	
TIME:						13:24	
(gpm)	--	--	--			DRY	
(gpm)	--	--	--				
(gpm)	--	--	--				
(gpm)	--	--	--				
(gpm)	--	--	--				
TIME:						0:00	
(in)	--	--	--				
(ft)	--	--	--				
(gpm)	--	--	--			NO FLOW	
(gpm)	--	--	--				
TIME:		10:24	10:15	10:25	10:20	12:22	
(ft)	--	55.59	83.92	70.61	54.82	92.79	
(ft)	--	54.8	84.77	69.68	53.79	51.89	
(ft)	--	54.97	83.54	70.21	54.4	52.32	
(ft)	--	54.6	84.99	70.18	56.9	55.1	
(ft)	--	62.72	84	80.6	63.14	62.4	
TIME:		10:27	10:20	10:19	10:25	12:28	
(in)	--	6.4	7.0	6.6	7.2	8.1	Log book up today
(in)	--	6.7	7.6	6.9	7.8	8.8	