

Cripple Creek & Victor Gold Mining Company P.O. Box 191 100 North 3rd Street Victor, Colorado 80860 P 719.689.2977 F 719.689.3254 newmont.com

SENT VIA ELECTRONIC COMMUNICATIONS

October 17, 2023

Mr. Patrick Lennberg Environmental Protection Specialist Colorado Department of Natural Resources Division of Reclamation, Mining and Safety Office of Mined Land Reclamation 1313 Sherman Street, Room 215 Denver, Colorado 80203

RE: Additional Information Required No. 2; Second Quarter 2023 Surface Water and Groundwater Monitoring Report, Cresson Project, Permit No. M-1980-244

Mr. Lennberg:

Cripple Creek and Victor Gold Mining Company (CC&V) received the Division of Reclamation, Mining, and Safety's (DRMS) Additional Information Required No. 2, Second Quarter 2023 Surface Water and Groundwater Monitoring Report, Cresson Project, Permit No. M-1980-244. CC&V has reviewed the comments issued in the letter dated September 26, 2023 from DRMS and has prepared responses for each comment. The DRMS comment (**in bold**) and CC&V's corresponding response (*in italics*) is presented below.

1. The Division was unable to verify where it is indicated on Stream Classification Table #24 (COARUA24) that the Table Value Standards (TVS) from Regulation 31 (Reg. 31) is to be utilized. However, in the footnotes on the page where Table #24 is located it references Section 32.6 for further details on applied standards. The Division reviewed Section 32.6(3) Table Value Standards and it appears these standards are more appropriate. If the Operator's opinion is the Reg. 31 TVS calculations are more appropriate please provide a discussion as to why. Finally, please recalculate the TVS values using the specified Reg. 32 TVS values, if they differ from Reg. 31 TVS values, and resubmit. If the Reg. 32 TVS equations are not different from the Re. 31 TVS equations please clearly state that is the case.

Regulation 32. Section 32.6 (3) states "In certain instances in the tables in Appendix 32-1, the designation "TVS" is used to indicate that for a particular parameter a "table value standard" has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and

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Methodologies for Surface Water." The Basic Standards and Methodologies for Surface Water is Regulation 31; therefore, all TVS equations are the same and have been calculated appropriately.

2. The Tables provided in Appendix 1 need additional clarification. Why are sample result values missing in the tables for GV-02 and GV-03? Where calculated values are above a standard it needs to be indicated either by highlighting or text bolded to clearly reflect an exceedance. A footnote should be added to the tables to indicate where estimated or unknown sample results are at or above a calculated standard value, e.g. Cyanide (Free), Mercury, and Nitrite. Update and resubmit the tables.

Surface Water monitoring parameters for quarterly surface water monitoring locations including GV-02 and GV-03 are analyzed in accordance with Table 3.2 of the approved Quality Assurance Project Plan (QAPP). The approved QAPP does not include the parameters that are missing values. As clarified in the initial response, CC&V is in the process of updating the QAPP and Exhibit G by October 21, 2023, which will include analysis for parameters identified in Regulation 32 for Surface Water Monitoring Locations. Attachment 1 contains updated tables with **bold** text indicating any exceedances.

3. The Division concurs that there is no specific statement to monitor purge volume within the USEPA Low-Flow Sampling Procedure. However, there is a requirement to monitor purge rate. Purge rate aids in determining the following "The final purge volume must be greater than the stabilized drawdown volume plus the pump's tubing volume. If the drawdown has exceeded 0.3 feet and stabilizes, calculate the volume of water between the initial water level and the stabilized water level. Add the volume of the water which occupies the pump's tubing to this calculation. This combined volume of water needs to be purged from the well after the water level has stabilized before samples are collected."(USEPA, 2017). In the original USEPA Low-Flow Sampling Procedure, 1996, section VI Documentation it is stated at a minimum documentation should include flow-rate and volumes extracted. For future sampling events the volumes extracted during monitoring well sampling need to be provided.

The flow rate is recorded on the Groundwater Sampling Field Logs for each well as described in the Monitoring Well Sampling Procedure in the approved CC&V QAPP. From this flow rate, total volume pumped is able to be calculated based on the amount of time the well is purged. The Groundwater Sampling Field Log has also been updated to ensure that the proper purge

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volume is being evacuated and recorded prior to sample collection if the drawdown exceeds 0.3 feet and stabilizes.

4. It is inappropriate to reference a site specific NPL concentration that is currently under review in an ongoing Technical Revision, TR-136. Please remove the references to those concentrations. For the locations mentioned provide updated graphs that demonstrate the exceedances are within the historic analytical range for those specific analytes.

GVMW-8A: This Fluoride concentration is consistent with background fluoride levels in wells installed in the Pikes Peak Granite. Elevated levels of fluorine in this formation are well-documented, as are elevated fluoride concentrations in groundwater in the Pikes Peak vicinity. Graph demonstrating historic analytical range for Fluoride is included in Attachment 2.

CRMW-3B: This Fluoride concentration is consistent with background fluoride levels in wells installed in the Pikes Peak Granite. Elevated levels of fluorine in this formation are well-documented, as are elevated fluoride concentrations in groundwater in the Pikes Peak vicinity. Graph demonstrating historic analytical range for Fluoride is included in Attachment 2.

CRMW-3C: This Fluoride concentration is consistent with background fluoride levels in wells installed in the Pikes Peak Granite. Elevated levels of fluorine in this formation are well-documented, as are elevated fluoride concentrations in groundwater in the Pikes Peak vicinity. Graph demonstrating historic analytical range for Fluoride is included in Attachment 2.

VIN-2B: It is known that Vindicator Valley contains a number of historical mines, and significant amounts of waste rock from these mines was placed throughout the valley during their operation. The elevated levels of sulfate are consistent with leaching from sulfidic mine waste materials and are therefore likely associated with impacts from historic mine waste that is known to exist in Vindicator Valley prior to January 31, 1994. The Q2 concentration may also be a potential outlier as the subsequent result for Q3 was more consistent with the historical data and below the current sulfate NPL for this location.

PGMW-3: Large fluctuations in Manganese concentrations have been identified at PGMW-3 throughout the period of record. These elevated concentrations are likely associated with impacts from historical mine waste, including tailings and waste rock known to exist throughout Poverty Gulch prior to January 31, 1994. The Q2 concentration may also be a potential outlier as the subsequent result for Q3 was more consistent with the historical average.

GV-02: Upon further review of historical data from this sample location, it appears that the increase in concentration of these parameters is related to heavy precipitation events. The



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historical data shows other intermittent spikes in concentrations that correlate to heavy precipitation events. Heavy precipitation was experienced in the days prior to the sample being collected on May 16, 2023. From May 11, 2023 through May 15, 2023 total precipitation as recorded at CC&V's RIGI Met Station was 3.13 inches.

Should the Division required further information regarding the above responses, please do not hesitate to contact Antonio Matarrese at 719-851-4185 or <u>Antonio.Matarrese@Newmont.com</u> or me at 719-851-4048 or <u>Katie.Blake@Newmont.com</u>.

Sincerely,

DocuSigned by: Katie Blake

Katie Blake Sustainability & External Relations Manager Cripple Creek & Victor Mine

EC: M. Cunningham – DRMS E. Russell - DRMS K. Blake - CC&V J. Gonzalez – CC&V A. Matarrese – CC&V

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Attachment 1

GV-02					
		Sample Date:	5/16/2023		
	Data for Calculations:				
oH Hardness	6.47 sto				
	400 m; 9.6 Ce	-			
Temperature	9.0[CE	isius			
Regulation 32	2 (5 CCR 1002-32) COARUA24 :	Standards	GV-02 Results		
Physical	Acute	Chronic	Physical		
oH (std. units)	6.5 - 9.0		6.4		
Temperature (°C)	< 21.7	< 17	9.		
L					
Inorganic	Acute (mg/L)	Chronic (mg/L)	Inorganic		
Ammonia	32.968	6.693	<0.0		
Boron		0.750	<0.0		
Chloride		250.000	24.		
Chlorine	0.019	0.011			
Cyanide (Free)	0.005		<0.00		
Nitrate	10.000		0.43		
Nitrite		0.050	<0.0		
Sulfide		0.002	-		
Sulfate		250.000	47		
Phosporus		0.110	<0.0		
Metals	Acute (mg/L)	Chronic (mg/L)	Metals		
Arsenic	0.34000		<0.00		
Arsenic (T)		0.00002	<0.00		
Cadmium	0.00654	0.00203	0.019		
Cadmium (T)	0.00500		-		
Chromium (III)		0.23067	-		
Chromium (III) (T)	0.05000		-		
Hexavalent Chromium	0.01600	0.01100	-		
Copper	0.04962	0.02928	0.0015		
ron		0.30000	<0.		
ron (T)		1.00000	<0.		
Lead	0.28085	0.01094	<0.000		
Lead (T)	0.05000		-		
Vanganese	4.73794	2.61771	4.8		
Mercury (T)		0.00001	<0.000		
Volybdenum (T)		0.15000	-		
Nickel	1.51289	0.16804	0.1		
Nickel (T)		0.10000	-		
Selenium	0.01840	0.00460	<0.00		
Silver	0.02202	0.00081	<0.0000		
Uranium	11.06999	6.91462	0.0001		
Zinc	0.56447	0.42754	5.3		

		Sample Date:	5/15/2023
		Sample Date.	5/15/2025
	Data for Calculations:		
ρΗ	5.7 stc	units	
Hardness	64.3 mg		
Temperature	3.7 Ce		
	0		
Regulation 3	32 (5 CCR 1002-32) COARUA24 S	tandards	GV-03 Results
Physical	Acute	Chronic	Physical
oH (std. units)	6.5 - 9.0		5.
Temperature (°C)	< 21.7	< 17	3
Inorganic	Acute (mg/L)	Chronic (mg/L)	Inorganic
Ammonia	37.823	7.017	0.06
Boron		0.750	<0.0
Chloride		250.000	18
Chlorine	0.019	0.011	-
Cyanide (Free)	0.005		<0.00
Nitrate	10.000		0.7
Nitrite		0.050	<0.0
Sulfide		0.002	-
Sulfate		250.000	7
Phosporus		0.110	0.28
Metals	Acute (mg/L)	Chronic (mg/L)	Metals
Arsenic	0.34000		<0.00
Arsenic (T)		0.00002	<0.00
Cadmium	0.00119	0.00052	0.0011
Cadmium (T)	0.00500		
Chromium (III)		0.05162	
Chromium (III) (T)	0.05000		
Hexavalent Chromium	0.01600	0.01100	
Copper	0.00886	0.00614	0.0056
Iron		0.30000	<0
lron (T)		1.00000	1.5
Lead	0.03980	0.00155	<0.000
Lead (T)	0.05000		
Manganese	2.57726	1.42394	0.070
Mercury (T)		0.00001	<0.000
Molybdenum (T)		0.15000	· · · · ·
Nickel	0.32226	0.03579	<0.0
Nickel (T)		0.10000	
Selenium	0.01840	0.00460	<0.00
Silver	0.00095	0.00004	<0.0001
Uranium	1.47654	0.92229	0.0010
Zinc	0.10708	0.08110	0.055



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Attachment 2



