

2023 ANNUAL HYDROLOGIC REPORT



BOWIE RESOURCES, LLC
BOWIE NO. 2 MINE
P.O. BOX 483
PAONIA, COLORADO 81428
PERMIT C-1996-083

PREPARED BY:



2023 Annual Hydrology Report

Bowie Resources, LLC

Bowie No. 2 Mine

Permit Number C-1996-083

Paonia, Colorado

Introduction

The Bowie No. 2 Mine was built and opened by Bowie Resources during the spring and summer months of 1997 with coal production/development beginning on August 15, 1997. This room and pillar operation began developing a main and submain system of underground entries to provide the ventilation, haulage and coal conveyor support for years to come. These entries are driven carefully on projections, held to minimum widths with larger than normal coal pillars left in place to assure adequate support for the life of the mine. The mine began longwall production during November 1999.

The following 2023 Annual Hydrology Report describes the hydrologic monitoring for surface and ground water within the permit and adjacent area of the Bowie No. 2 Mine and presents baseline data for the natural mine plan progression.

In this report, springs, ponds and streams (including ditches, rivers, and canals) are considered surface water. Alluvial wells and drill holes are sampled and analyzed as ground water. Please refer to the permit application for a discussion of the methods employed during the gathering of field parameters. Permit Map-09 (attached as an exhibit in this report) indicates the location of all monitoring points referred to in this report.

At the request of the Division, we have included baseline data for all Springs, Streams, Drill Holes and Alluvial Wells on the annual tabulation figures. Previously, parameters not tested and tested but found below the Method Detection Limit (MDL) were left blank. Blank cells represent a "not tested" condition, while a "<MDL" notation is made for the condition where a parameter falls below the Method Detection Limit. Additional requests from the Division during the approval process for PR-04 have added other improvements to the tables, including minimum/maximum/average values for the baseline period and minimum/maximum/average values for the operational influenced period of the monitoring point.

Table 1 (immediately following this narrative) defines the monitoring points by type and sample frequency, field parameter sampling schedule and laboratory parameter sampling schedule.

Table 2 contains a listing of the laboratory parameters for surface and ground water to be tested in accordance with the mining permit application. Laboratory analysis are performed by ACZ Laboratories, INC., 2773 Downhill Dr, Steamboat Springs, CO 80407 and Enviro-Chem Analytical, Inc., 685 West Gunnison Avenue, Grand Junction, CO.

Table 3 contains a listing of the field parameters and their application to the Springs, Streams, Drill Holes and Ponds within the permit boundary. Flow readings for springs and small streams are reported in gallons per minute. Stream and river flows are reported in cubic feet per second.

Table 4 contains local precipitation data for the year. This data is available from the internet at www.wrcc.dri.edu/summary/Climsmco.html select Paonia 1 SW (056306). The average precipitation for the period of record (1893 through 2016) is 15.39 inches. Data recorded at the Bowie no. 2 mine site through December 31, 2023 is 13.82 inches, which is below average. That number does not necessarily reflect the total snowfall received at the mine, overall the precipitation was average when snowfall is taken into account.

Table 5 contains a listing of all monitoring points, with descriptions of their locations and a reference to the Monitoring Point Figure that contains this year's monitoring data. The included charts are given a figure number. During 2015 and 2016, approval of Technical Revision Nos. 103 and 107 eliminated, or temporarily suspended forty-seven (47) monitoring points. Table 5 hi-lights the changes to the monitoring program.

Monitoring point figures follow this introduction. Each Monitoring Point has an individual table which tabulates the annual data collection and reports Minimum, Maximum, Average and Baseline data. A reference in each footnote explains the period used for baseline data.

Flow data for the North Fork of the Gunnison River is obtained from the USGS from a website <http://nwis-colo.cr.usgs.gov/historic.html>. This flow reading is obtained telemetrically from a station near Somerset, CO and is reflective of upper river flows only. This monitoring point is identified by the USGS as 09132500.

Flow data for the Fire Mountain Canal is obtained from Mr. Trey Dennison, member of the Fire Mountain Canal and Reservoir Company, whose phone number is (970) 527-5166 or cell (970) 589-2857. This flow is representative of the upper and lower flows.

Monitoring point identifiers near the mine portals are historic and follow no specific naming convention. Monitoring points located in other areas typically follow a convention where the first letter(s) designates a water source type, such as "S" for Spring or "SP" for Spring and Pond. The numeral(s) following the first letter designate what Section the water source is located, for instance, SP34-2 would be a spring and pond in Section 34. The numeral separated with a dash indicates an index number for that point. SP34-2 would be the second monitoring point found in Section 34.

CDPS Monitoring Points

DMRs are submitted monthly to the Colorado Department of Public Health and Environment with copies to the Division of Reclamation, Mining and Safety and are included herein by reference.

North Fork Alluvium Monitoring Wells

Alluvial monitoring wells AW-1 through AW-6 are located near the mine entrance along the north side of Bowie Road. These wells are monitored quarterly for field parameters and semi-annually for full suite laboratory parameters during the second and fourth quarters in accordance with the permit application. Alluvial monitoring wells AW-7 through AW-9 are located near the mine entrance along the south side of Bowie Road. AW-10 cannot be reliably sampled due to a collapse of the casing, and was eliminated from the monitoring plan. These wells were installed as a requirement of PR-03 which allowed the mine operator to relocate Sediment Pond B to the south side of the highway. Alluvial Wells 11 through 13 were installed during the fall of 2000 to monitor the alluvium in the area where the new coal loadout (PR-06) was constructed. Alluvial well 13 was eliminated by the construction of the unit train loadout. Alluvial well 14 was installed during 2003 west of Pond K. Alluvial wells 15 through 17 were installed during the fourth quarter of 2003 and are located north of Bowie Road below coal mine waste disposal area #2.

The 2023 sampling season provides results consistent with baseline information provided in the permit application, showing no adverse impact to groundwater during the construction of the mine, however 2023 was relatively dry through the summer and beginning of summer, so laboratory samples were not obtained for many well sites. There has not been any significant degradation of alluvial wells 11 and 12 which are located below gob pile #3. Although it has been trending higher, Alluvial well 6 did not have high conductivity values this year. Alluvial well 3's conductivity values are also trending higher, but did not record a high conductivity this year. The well is located below the coal stockpile pad, which has not held a significant amount of coal for the last two years. However, looking at the chart associated with AW-3, since November 1996 it too has been trending higher.

Surface Water Monitoring Stations: PONDS

Ponds were sampled for water quality when discharging or inflows/outflows were occurring. Ponds are typically spring-fed or seep-fed and exhibit diffuse non-concentrated areas of inflow. Often the pond outlets present the only point of concentrated flow at which flow measurements and field parameters can be obtained.

Where possible, quality measurements are obtained at the pond inlet. Stagnant water in ponds is not sampled since water quality results would show the effects of evaporation and stock use and could not be used to evaluate potential mine affects. Ponds are monitored quarterly. The following information is collected for the ponds; 1) inflow; 2) outflow; and 3) water level below spillway outlet or depth of water in pond measured from the bottom of the pond. Field data collected during the 2023 sampling season is consistent with baseline information provided in the permit application.

Surface Water Monitoring Stations: SPRINGS

Forty-nine springs and springs with ponds were monitored during the 2023 monitoring season in accordance with the Hydrologic Monitoring Plan. This plan indicates that identified springs will be inspected quarterly for field parameters with full suite laboratory parameters required on springs with flows greater than five (5) gallons per minute. During the construction phase of the mine, four (4) springs (S-6, S-7, S-9 and S-15) were eliminated by road and portal bench construction activities. The 2023 field and laboratory analysis are consistent with baseline data provided in the permit application. There has been a trend in many of the springs that shows the conductivity increases as the flow decreases. This trend is most likely caused by the increased time the water is in contact with the alluvium because of the lower flows.

Surface Water Monitoring Stations: STREAMS AND DITCHES

Twenty-three surface water monitoring stations including the North Fork of the Gunnison, Terror Creek, Hubbard Creek, Freeman Gulch, the Deer Trail Ditch, Stephens Draw, and the Fire Mountain Canal are monitored quarterly for field parameters and semi-annually for full suite analysis. The results of the 2023 field and laboratory studies are consistent with baseline information supplied in the permit application.

The USGS, with right of way permission from the USDA-Forest Service, installed continuous monitoring stations on both Hubbard and Terror Creeks. Similar stations are installed near each creek's confluence with the North Fork of the Gunnison River. These stations have been calibrated by the USGS's hydrology department and now provide accurate readings for the Annual Hydrology Reports. The USGS did not collect flow data for their station during 2023. Flow data for the creeks were determined by Bowie Resources, LLC during 2023.

Surface Water Monitoring Stations: SMALL AREA EXEMPTIONS

The locations of the small area exemptions are presented on Map 20. The Applicant will monitor the flow from the small area exemptions to assure compliance with 4.05.2(3). The Applicant will use its best efforts to obtain samples. The samples will be

analyzed for pH, conductivity and total settleable solids. Samples will be in compliance if they contain settleable solid levels of 0.5 ml/l or less and the pH is greater than 6.5 and less than 9.0. No small area exemption sampling was performed during the year.

Coal Member of Mesaverde

Eleven bedrock wells were monitored during the 2023 sampling season. These holes were monitored quarterly for field parameters and semi-annually for full suite laboratory analysis. Data collected and evaluated is consistent with the baseline information provided in the permit application except for DH-39 which is adjacent to the repaired DH-15. DH-39 did not have higher than average conductivity for the one quarter it was monitored, but not as high as in 2022. The trend in increased conductivity began after DH-15 was sealed and replaced with DH-15A, see description in the following paragraph. DH-58A had slightly higher than average conductivity values for this year, but nothing of major concern. The mine construction work during 1997 required the elimination of four monitored drill holes. These holes are DH 42, DH 52, DH 54 and DH 55 and were located near the mine portals. Drill Holes DH-13 and DH-34b were eliminated by mining. Drill hole DH-34c was damaged by ground movement. DH-16 is blocked at 60-feet so no monitoring can be performed. Drill Holes DH-57, 57a and DH-58, 58a were added in conjunction with the Terror Creek Coal Exploration Plan, with monitoring beginning in the fall of 1999. Drill holes DH-57 and DH57a were destroyed by longwall mining during 2001. DH-58 and 58a were eliminated by mining during late 2003 so they are no longer monitored.

D-Seam monitoring wells DH-15, DH-25 and DH-38 can no longer be monitored since all three have damaged well casings. During 2016, DH-15 was sealed and replaced by new D-Seam monitoring well DH-15A. The new well is located near the old monitoring well. Monitoring of DH-15A began the fourth quarter of 2016. Conductivity was not elevated at DH15A during the 2Q both in the field and laboratory data, nor were TDS, sulfate, dissolved Calcium and Nitrogen/Ammonia were slightly high although not significantly higher than in 2022. It is unknown why these data points have been high, and it is unknown if the high values will return next year, or if the water will remain average. The data will once again be monitored in next years' report to determine if there is a trend. It is unclear what the new normal may be based on drilling and installing DH-15A.

Drill holes DH-65, DH-66, DH-67D, DH-67blw and DH-67abv were added in conjunction with the Iron Point Federal coal lease, with some monitoring beginning during the fall of 2000. DH-67D was damaged during 2003 so no monitoring was performed. The DH-67 holes were refurbished during 2004. DH-66 was eliminated by mining during early 2004 so it is no longer monitored. DH-67blw had a pinched casing so a new DH-67blw was drilled during 2014. The Operator was not able to obtain a sample from DH 67B

this year during the second quarter. The site was not accessible during the 1Q.

Drill holes DD-NM4X98-27, 28 and 29 were in-mine monitoring holes which were added to the monitoring program during 2003. The three monitoring points were abandoned when the mine activity retreated from the east mains in mid 2004. TC-03-01, 02 and 03 were added to the monitoring program during 2003. TC-03-03 was sealed in 2010 because a ventilation shaft was constructed where TC-03-03 was located. Monitoring wells TC-03-01 and TC-03-02 could not be rehabilitated during 2014. The wells could be used as water level piezometers but the wells are not functional for water quality data. Monitoring results for these well is of questionable value.

Drill holes CWI-DH-58 and CWI-DH-60 were added to the monitoring program in 2011 with the approval of permit revision 12 to cover the area west of Terror Creek. Monitoring well CWI-DH-60 was cleaned and rehabilitated between August 20 and August 23, 2014. On August 22, 2014, the well was evacuated using the airlift and bailing techniques and the water quality showed a pH of 7.70 s.u., conductivity of 863 $\mu\text{S/cm}$, and temperature of 20.5° C. After a 12 hour recovery period, the SWL was measured at 892.0 feet btoc (August 23, 2014).

A new well CWI-DH-58a was drilled to replace CWI-DH-58 late in 2014. The Applicant drilled DH-2010-1SS and DH-2010-1B during 2011. DH-2010-1B is completed in the B-Seam and DH-2010-1SS is completed in a water bearing zone above the B-Seam. Drill hole 2010-1B was refurbished during 2014. After the 2014 well rehabilitation work, 2010-1B had the following water quality: pH 9.75 su, conductivity 277 umhos/cm, total iron 4.31 mg/l, manganese 0.0621 mg/l.

Conclusion

The results of the hydrologic monitoring conducted during the 2023 season indicate consistent chemical and physical properties when compared with the baseline values provided in the permit application. Longwall mining is the focus of all mining operations at Bowie No. 2 Mine. Longwall mining ceased February 26, 2016 so there was no mining during the calendar year. Prior mining has not affected the local hydrology during the current year. Water quality at all monitored sites remains good overall and no chemical or physical impacts have been noted. Except as noted above, none of the field or laboratory parameter results indicate an adverse impact associated with the mining operations of the Bowie No. 2 Mine on the local hydrology.

Many sites require four quarters of sampling for field parameters (Terror Creek Drainage system, Dove Gulch, nearly all of the Ponds, many of the S-Series Springs,

etc.). However, due to drought conditions and or/snow during the winter months, many sites did not have water available to obtain samples for field or laboratory parameters. In those cases, if there were field parameters obtained and no laboratory data listed, it means there was not enough water to obtain a sample to send to the lab.

Summary of Hydrology Monitoring Stations

Station Number	Station Name	Elevation (ft.)	Depth (ft.)	Frequency of Measurements		Report Frequency	Report Format		Comments
				Field Par.	Lab. Par.		AHR	DMR	
Surface Water Monitoring - SPRINGS WITH PONDS									
SP5-1	Terror Creek-Spring/Pond 5-1	7400		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP6-4	Terror Creek-Spring/Pond 6-4	8040		Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
SP7-1	Terror Creek-Spring/Pond 7-1	7780		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP7-5	Stevens Gulch-Spring/Pond 7-5	8300		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP12-4	Stevens Gulch-Spring/Pond12-4	8040		Quarterly	Quarterly	Annually	Yes	No	Permanently Suspended TR-103
SP16	Terror Creek-Spring/Pond 16	7780		Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
SP17	Terror Creek-Spring/Pond 17	7520		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP18	Terror Creek-Spring/Pond 18	7280		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP19	Stevens Gulch-Spring/Pond 19	8240		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP20	Terror Creek-Spring/Pond 20	7840	4	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP22	Terror Creek-Spring/Pond 22	7560		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP23	Stevens Gulch-Spring/Pond 23	7480		Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
SP34-11	Sheep Corral-Spring/Pond 34-11	7440	3	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
ST36-2	Flat Tanks	8160		Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
ST36-4	Oak Hills Spring Lower Tank	8040		Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
ST36-5	Oak Hiles Spring Upper Tank	8240		Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
Surface Water Monitoring - SPRINGS									
S-1	B Gulch-Spring 1	6990	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-2	Freeman Gulch-Spring 2	7920	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-3	Freeman Gulch-Spring 3	7920	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-4	Terror Creek-Spring 4	7880	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-4a	Terror Creek-Spring 4a	7910	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-5	Sheep Corral-Spring 5	7800	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-5a	Sheep Corral-Spring 5a	7860	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-5b	Sheep Corral-Spring 5b	7860	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-8	C Gulch-Spring 8	7220	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-10	Steven's Draw-Spring 10	7550	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-11	Steven's Draw-Spring 11	7940	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-12	B Gulch-Spring 12	7650	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-13	Freeman Gulch-Spring 13	7500	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-14	Steven's Draw-Spring 14	7100	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-16	Terror Creek-Spring 16	7750	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-17	Freeman Gulch-Spring 17	7110	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S-18	Terror Creek-Spring 18	7750	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1

Summary of Hydrology Monitoring Stations (Continued)

Station Number	Station Name	Elevation (ft.)	Depth (ft.)	Frequency of Measurements		Report Frequency	Report Format		Comments
				Field Par.	Lab. Par.		AHR	DMR	
Surface Water Monitoring Stations - SPRINGS (cont.)									
S1-3	Terror Creek-Spring 1-3	7860	N/A	Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
S1-5	Terror Creek-Spring 1-5	8020	N/A	Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
S2-2	Hubbard Creek-Spring 2-2	6740	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S2-3	Hubbard Creek-Spring 2-3	6740	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S2-9	Hubbard Creek-Spring 2-9	6320	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S2-10	Hubbard Creek-Spring 2-10	6320	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S3-1	Sheep Corral-Spring 3-1	6840	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S5-2	Seep West of Terror Creek Road	7200	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S5-3	Red's Spring & Pipeline	7200	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S5-4	Hugh's Family Pipe & Spring	7320	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S6-1	Terror Creek-Spring 6-1	7720	N/A	Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103
S6-6	Terror Creek-Spring 6-6	7860	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S6-7	West Fork Terror Ck Concrete Box	7600	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S7-4	Stevens Gulch-Spring 7-4	8190	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S7-9	Terror Creek-Spring 7-9	7800	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S7-10	Terror Creek-Spring 7-10	7880	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S8-5	Terror Creek-Spring 8-5	7800	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S21	Terror Creek-Spring 21	7100	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S33-4	Sheep Corral-Spring 33-4	7790	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-7	Sheep Corral-Spring 34-7	7390	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-10	Dove Gulch-Spring 34-10	6640	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-19	Hubbard Creek-Spring 34-19	6460	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-20	Hubbard Creek-Spring 34-20	6440	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-21	Hubbard Creek-Spring 34-21	6430	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-22	Hubbard Creek-Spring 34-22	6700	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-23	Hubbard Creek-Spring 34-23	6650	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-24	Hubbard Creek-Spring 34-24	6390	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S34-25	Dove Gulch-Spring 34-25	6680	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring - Lab analysis >5gpm, List 1
S36-7	Seeps 11 Below Stevens Gulch Rd	8120	N/A	Quarterly	Quarterly	Annually	Yes	No	Temporarily Suspended TR-103

Summary of Hydrology Monitoring Stations (Continued)

Station Number	Station Name	Elevation (ft.)	Depth (ft.)	Frequency of Measurements		Report Frequency	Report Format		Comments
				Field Par.	Lab. Par.		AHR	DMR	
Surface Water Monitoring Stations - STREAMS AND DITCHES									
A-Gulch-lo	Drainage System	5960	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
B-Gulch-lo	Drainage System	5960	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
B-Gulch-up	Drainage System	7080	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
C-Gulch-lo	Drainage System	5960	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
C-Gulch-up	Drainage System	7120	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
D2-1	Sheep Corral-Drainage System	6360	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
D21-1	Terror Creek-Confluence w/NFG	5760	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Flow USGS
D32-4	Terror Creek-Drainage System	7480	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Flow USGS
D33-14	Upper Sheep Corral Gulch	7320	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
D34-13	Dove Gulch-Drainage System	6440	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
D34-14	Hubbard Creek-Drainage System	6560	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Flow USGS
Deer-low	Canal-Deer Trail Ditch	5920	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Aug, List 2
Deer-up	Canal-Deer Trail Ditch	5960	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Aug, List 2
D-Gulch-lo	Drainage System	5960	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
D-Gulch-up	Drainage System	7160	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
FMC-Low	Canal-Fire Mountain Canal	5920	N/A	May/Jul/Sep	Semi-Annually	Annually	Yes	No	No winter monitoring - 1st & 3rd Qrt, List 1
FMC-up	Canal-Fire Mountain Canal	5960	N/A	May/Jul/Sep	Semi-Annually	Annually	Yes	No	No winter monitoring - 1st & 3rd Qrt, List 1
Free-low	Freeman Gulch-Drainage System	7560	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
Free-up	Freeman Gulch-Drainage System	6360	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
Hub-low	Hubbard Creek-Drainage System	5880	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monit-2nd & 4th Qrt, List 1-Flow USGS
Hub-up	Hubbard Creek-Drainage System	6320	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
NFG-low	North Fork-Drainage System	5680	N/A	Quarterly	Semi-Annually	Annually	Yes	No	2nd & 4th Qrt, List 1 - August, List 2 - Flow USGS
NFG-up	North Fork-Drainage System	5880	N/A	Quarterly	Semi-Annually	Annually	Yes	No	2nd & 4th Qrt, List 1 - August, List 2 - Flow USGS
Steph-low	Steven's Draw-Drainage System	7000	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
Steph-up	Steven's Draw-Drainage System	7920	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-01	West Fork Terror Ck-Downstream	7140	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-02	Terror Creek-Mid Stream	7040	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-04	West Terror Creek Trib -Upstream	7880	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-05	Stevens Gulch-Downstream	6600	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-10	Terror Ditch	6480	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-11	Stevens Gulch-Upstream	8084	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
SW-12	West Fork Terror Ck-Upstream	7920	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
EF-1	West Fork Ephemeral Channels	Varies	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1
EF-2 thru 9	West Fork Ephemeral Channels	Varies	N/A	Quarterly	Semi-Annually	Annually	Yes	No	Temporarily Suspended TR-103
EF-7 thru 9	West Fork Ephemeral Channels	Varies	N/A	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring - 2nd & 4th Qrt, List 1

Summary of Hydrology Monitoring Stations (Continued)

Station Number	Station Name	Elevation (ft.)	Depth (ft.)	Frequency of Measurements		Report Frequency	Report Format		Comments
				Field Par.	Lab. Par.		AHR	DMR	
Coal Member of Mesaverde									
DH-15	Steven's Draw-Drill Hole	7143	218	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
DH-25	C Gulch-Drill Hole	7144	325	Quarterly	N/A	Annually	Yes	No	Permanently Suspended TR-103
DH-38	D Gulch-Drill Hole	7245	454	Quarterly	N/A	Annually	Yes	No	Permanently Suspended TR-103
DH-15a	Steven's Draw-Drill Hole	7143	218	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
DH-39	Steven's Draw-Drill Hole	7143	181	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH-49	B Gulch-Drill Hole	7203	324	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH-67B	Hubbard Creek-Monitoring Well	6451	594	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH-67D	Hubbard Creek-Monitoring Well	6450	325	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH-67abv	Hubbard Creek-Monitoring Well	6451	193	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH-67blw	Hubbard Creek-Monitoring Well	6451	360	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
TC-03-01(B)	Terror Creek - Monitoring Well-Upper	7118	713	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
TC-03-02	Terror Creek - Monitoring Well	7095	586	Quarterly	Semi-Annually	Annually	Yes	No	Permanently Suspended TR-103
CWI-DH-58A	Upper B Seam	7442	575	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
CWI-DH-60	Upper B Seam (B1)	7921	1085	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH2010-1B	Above Upper B Seam - Deep	7545	1220	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
DH2010-1SS	Upper B Seam - Shallow	7545	1140	Quarterly	Semi-Annually	Annually	Yes	No	No winter monitoring-Lab analysis 2nd & 4th Qrts
North Fork Alluvium Monitoring Wells									
AW-1	Alluvial Well	5978	120	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-2	Alluvial Well	5967	50.4	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-3	Alluvial Well	5963	150	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-4	Alluvial Well	5978	60	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-5	Alluvial Well	5982	100	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-6	Alluvial Well	5981	112	Quarterly	Semi-Annually	Annually	Yes	No	Lab anlaysis 2nd & 4th Qrts
AW-7	Alluvial Well	5950	188	Quarterly	Semi-Annually	Annually	Yes	No	Installed Fall of 1999 - Lab 2nd & 4th Qrts
AW-8	Alluvial Well	5950	60	Quarterly	Semi-Annually	Annually	Yes	No	Installed Fall of 1999 - Lab 2nd & 4th Qrts
AW-9	Alluvial Well	5946	80	Quarterly	Semi-Annually	Annually	Yes	No	Installed Fall of 1999 - Lab 2nd & 4th Qrts
AW-11	Alluvial Well	5884	60.86	Quarterly	Semi-Annually	Annually	Yes	No	Installed Fall of 2000 - Lab 2nd & 4th Qrts
AW-12	Alluvial Well	5878	45.38	Quarterly	Semi-Annually	Annually	Yes	No	Installed Fall of 2000 - Lab 2nd & 4th Qrts
AW-14	Alluvial Well	5822	30	Quarterly	Semi-Annually	Annually	Yes	No	Installed Summer of 2003 - Lab 2nd & 4th Qrts
AW-15	Alluvial Well	5973	86	Quarterly	Semi-Annually	Annually	Yes	No	Installed Winter of 2003 - Lab 2nd & 4th Qrts
AW-16	Alluvial Well	5965	75	Quarterly	Semi-Annually	Annually	Yes	No	Installed Winter of 2003 - Lab 2nd & 4th Qrts
AW-17	Alluvial Well	5951	62	Quarterly	Semi-Annually	Annually	Yes	No	Installed Winter of 2003 - Lab 2nd & 4th Qrts

Summary of Hydrology Monitoring Stations (Continued)

Station Number	Station Name	Elevation (ft.)	Depth (ft.)	Frequency of Measurements		Report Frequency	Report Format		Comments
				Field Par.	Lab. Par.		AHR	DMR	
Surface Water Monitoring Stations - PONDS									
P-1	Steven's Draw-Pond 1	7080	5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P-2	Freeman Gulch-Pond 2	7600	5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P-3	Terror Creek-Pond 3	7730	4.5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P-4	Terror Creek-Pond 4	7880	3.5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P-5	Sheep Corral-Pond 5	7800	8	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P-6	Terror Creek-Pond 6	7880	3	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P1-4	W Fork Terror Creek-Pond 1-4	7960		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P1-6	W Fork Terror Creek-Pond 1-6	7980		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P1-11	W Fork Terror Creek-Pond 1-11	8000		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P1-12	W Fork Terror Creek-Pond 1-12	7860		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P5-5	Hugh's Pipe & Pond	7320		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P6-2	W Fork Terror Creek-Pond 6-2	8000		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P6-5	W Fork Terror Creek-Pond 6-5	8020		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P7-2	Stevens Gulch-Pond 7-2	8190		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P7-7	Stevens Gulch-Pond 7-7	8380		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P7-11	Stevens Gulch-Pond 7-11	8400		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P8-4	Terror Creek-Pond 8-4	6980		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P12-1	Stevens Gulch-Pond 12-1	7950		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P12-2	Stevens Gulch-Pond 12-2	8030		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P12-9	Stevens Gulch-Pond 12-9	7800		Quarterly	N/A	Annually	Yes	No	Permanently Suspended TR-103
P12-10	Stevens Gulch-Pond 12-10	7820		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P12-11	Stevens Gulch-Pond 12-11	7800		Quarterly	N/A	Annually	Yes	No	Permanently Suspended TR-103
P17-1	Coal Gulch-Pond 17-1	7340		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P18-1	Coal Gulch-Pond 18-1	7760		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P18-4	Stevens Gulch-Pond 18-4	8350		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P81	Stevens Gulch-Pond 81	8640		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P82	Terror Creek-Pond 82	7580		Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P83	Coal Gulch-Pond 83	7820	2.5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P33-3	Sheep Corral-Pond 33-3	7760	5.5	Quarterly	N/A	Annually	Yes	No	No winter monitoring-Reprt Inflow, Outflow, Depth
P31-1	Dry Pond Below Stevens Gulch Rd	8120		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P36-1	Flat Pond Above Stevens Gulch Rd	8120		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P36-3	Meadow Pond	8140		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103
P36-6	Dry Pond 11	8140		Quarterly	N/A	Annually	Yes	No	Temporarily Suspended TR-103

LAB PARAMETER LIST

SURFACE WATER LIST 1

Field Parameters	
Flow Rate (gpm)	
Water Level	
pH (Standard Units)	
Conductivity (umhos/cm)	
Temperature (C)	
*Dissolved Oxygen (mg/l)	
Lab Parameters	
Wet Chemistry	MDL
Bicarbonate (HCO ₃) (mg/l)	2 mg/L
Chloride (Cl) (mg/l)	0.5 mg/L
Conductivity (umhos/cm)	1 umhos/cm
Nitrate/Nitrite (mg/l)	0.1 mg/L
pH (Standard Units)	0.1 s.u.
Hardness (mg/l)	1 mg/L
Phosphate (PO ₄ ⁻³ as P) (mg/l)	0.02 mg/L
Residue, Filterable (TDS) @180 C (mg/l)	0.5 mg/L
Residue, NonFilterable (TSS) (mg/l)	0.5 mg/L
Sodium Absorption Ratio in Water	0.15
Sulfate (SO ₄ ⁻²) (mg/l)	0.6 mg/L
Metals	
Aluminum (Al), total recoverable (mg/l)	0.05 mg/L
Arsenic (As), total recoverable (mg/l)	0.002 mg/L
Cadmium (Cd), total recoverable (mg/l)	0.0002 mg/L
Calcium (Ca ⁺²), total recoverable (mg/l)	0.2 mg/L
Copper (Cu), total recoverable (mg/l)	0.01 mg/L
Iron (Fe), total recoverable & Diss (mg/l)	0.01 mg/L
Lead (Pb), total recoverable (mg/l)	0.02 mg/L
Magnesium (Mg ⁺²), total recoverable (mg/l)	0.2 mg/L
Manganese (Mn), total recoverable (mg/l)	0.01 mg/L
Mercury (Hg), total recoverable (mg/l)	0.000025 mg/L
Molybdenum (Mo), total recoverable (mg/l)	0.02 mg/L
Selenium (Se), total recoverable (mg/l)	0.001 mg/L
Sodium (Na ⁺), total recoverable (mg/l)	0.2 mg/L
Zinc (Zn), total recoverable (mg/l)	0.005 mg/L
Organic Analysis	
Oil and Grease (mg/l)	0.5 mg/L

SURFACE WATER LIST 2

Field Parameters	
Flow Rate (gpm)	
Water Level	
pH (Standard Units)	
Conductivity (umhos/cm)	
Temperature (C)	
*Dissolved Oxygen (mg/l)	
Lab Parameters	
Wet Chemistry	MDL
pH (Standard Units)	0.1 s.u.
Residue, Filterable (TDS) @180 C (mg/l)	0.5 mg/L
Ammonia (NH ₃) (mg/l)	0.1 mg/L
Chloride (Cl) (mg/l)	0.5 mg/L
Cyanide (CN) (mg/l)	0.2 mg/L
Dissolved Oxygen (mg/l)	Report
Hardness (mg/l)	1 mg/L
Nitrate (NO ₃) (mg/l)	0.1 mg/L
Nitrite (NO ₂) (mg/l)	0.01 mg/L
Sulfide (S) (mg/l)	0.2 mg/L
Sulfate (SO ₄ ⁻²) (mg/l)	0.1 mg/L
Metals	
Arsenic (As), total recoverable (ug/l)	0.002 mg/L
Boron, total recoverabel (mg/l)	0.1 mg/L
Cadmium (Cd), total recoverable (ug/l)	0.0002 mg/L
Chromium III CrIII (ug/l)	0.01 mg/L
Chromium VI CrIV (ug/l)	0.02 mg/L
Copper (Cu), total recoverable (ug/l)	0.01 mg/L
Iron (Fe), dissolved (ug/l)	0.005 mg/L
Iron (Fe), total recoverable (ug/l)	0.001 mg/L
Lead (Pb), total recoverable (ug/l)	0.01 mg/L
Manganese (Mn), dissolved (ug/l)	0.01 mg/L
Manganese (Mn), total recoverable (ug/l)	0.01 mg/L
Mercury (Hg), total recoverable (ug/l)	0.000025 mg/L
Nickel, total recoverable (ug/l)	0.02 mg/L
Selenium (Se), total recoverable (ug/l)	0.001 mg/L
Silver (Ag), total recoverable (ug/l)	0.001 mg/L
Zinc (Zn), total recoverable (ug/l)	0.005 mg/L

GROUND WATER

Field Parameters	
Water Elevation (Feet)	
Depth to Water (Feet)	
pH (Standard Units)	
Conductivity (umhos/cm)	
Temperature (C)	
Lab Parameters	
Wet Chemistry	MDL
Bicarbonate (HCO ₃) (mg/l)	2 mg/L
Carbonate (CO ₃) (mg/l)	2 mg/L
Chloride (Cl) (mg/l)	0.5 mg/L
Conductivity (umhos/cm)	1 umhos/cm
Nitrate/Nitrite (mg/l)	0.1 mg/L
Ammonia (NH ₃) (mg/l)	0.1 mg/L
pH (Lab Units)	0.1 mg/L
Hardness (mg/l)	1 mg/L
Phosphate (PO ₄ ⁻³ as P) (mg/l)	0.02 mg/L
Residue, Filterable (TDS) @180 C (mg/l)	0.5 mg/L
Sulfate (SO ₄ ⁻²) (mg/l)	0.6 mg/L
Metals	
Arsenic (As), dissolved (mg/l)	0.002 mg/L
Cadmium (Cd), dissolved (mg/l)	0.0002 mg/L
Calcium (Ca ⁺²), dissolved (mg/l)	0.2 mg/L
Iron (Fe), dissolved (mg/l)	0.01 mg/L
Iron (Fe), total recoverable (mg/l)	0.01 mg/L
Magnesium (Mg ⁺²), dissolved (mg/l)	0.2 mg/L
Manganese (Mn), dissolved (mg/l)	0.01 mg/L
Manganese (Mn), total recoverable (mg/l)	0.01 mg/L
Mercury (Hg), dissolved (mg/l)	0.000025 mg/L
Selenium (Se), dissolved (mg/l)	0.001 mg/L
Sodium (Na ⁺), dissolved (mg/l)	0.2 mg/L
Zinc (Zn), dissolved (mg/l)	0.005 mg/L

Refer to Pages 2.05-134 and 2.05-135
of Permit Application

Surface Water List 2 is applicable
annually for North Fork Gunnison
and Deer Trail Ditch only

NOTE: Springs are considered
Surface Water

*Dissolved Oxygen is reported for
Deer Trail Ditch, Fire Mountain
Canal and North Fork Gunnison

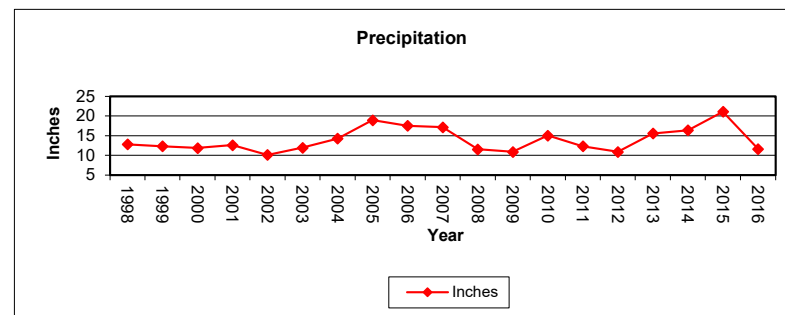
FIELD PARAMETER LIST

Parameter	Unit	Wells	Ponds	Streams	Springs
Conductivity	umhos/cm	Yes	Yes	Yes	Yes
Flow Rate	CFS/GPM	No	Yes	Yes	Yes
pH	Standard	Yes	Yes	Yes	Yes
Temperature	C	Yes	Yes	Yes	Yes
Water Level	Feet	Yes	Yes	No	No

PRECIPITATION VALUES

Monthly Precipitation Values

Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
January	1.13	1.08	1.93	0.73	0.55	0.26	1.31	2.05	0.81	0.68	1.67	0.91	0.42	0.49	1.22	1.83	0.66	1.02	0.9
February	0.83	0.38	1.27	1.06	0.11	1.35	1.46	1.38	0.28	0.92	1.1	1	1.66	0.87	1.41	0.89	2.16	1	0.85
March	1.43	0.42	1.03	0.42	1.03	1.17	0.14	1.93	1.58	1.39	0.54	0.89	1.2	1.22	0.3	1.14	0.77	0.76	0.3
April	1.43	2.54	0.42	0.57	0.61	0.49	3.3	1.37	0.83	1.2	0.77	1.09	0.51	1.68	0.62	1.3	1.31	1.75	1.21
May	0.16	1.00	0.67	1.75	0.28	1.81	0	1.22	0.17	1.18	0.64	2.73	1.68	0.83	0.09	1.24	1.71	3.86	1.33
June	0.47	0.94	0.86	0.39	0.04	0.48	0.34	1.64	0.5	0.99	0.67	0.63	0.55	0.32	0.05	0	0.21	1.05	0.51
July	0.66	2.7	0.89	1.31	0.28	0.76	0.02	0.4	3.06	0.85	0.24	0.27	1.44	1.74	1.26	1.37	1.11	2.43	0.8
August	1.18	1.42	1.27	2.35	0.66	0.46	0.48	1.71	0.87	1.16	2.07	0.33	2.09	0.46	2.35	0.78	2.13	1.96	1.81
September	0.75	1.16	1.27	0.34	2.43	1.93	2.85	2.84	2.32	3.2	0.62	0.32	1.15	1.2	0.92	3.28	2.96	1.2	1.07
October	1.88	0.05	0.75	0.84	2.53	0.46	1.37	2.11	5.08	1.37	0.74	0.58	1.84	1.55	0.64	2.12	1.17	1.94	0.49
November	1.87	0.07	0.73	1.85	0.9	1.74	1.72	0.84	1.39	0	0.91	0.77	0.58	0.96	0.61	0.91	0.65	1.48	0.16
December	1.00	0.57	0.78	0.99	0.71	1.03	1.26	1.47	0.65	4.20	1.55	1.36	1.91	1.01	1.41	0.69	1.56	2.70	2.18
Minimum	0.16	0.05	0.42	0.34	0.04	0.26	0.00	0.40	0.17	0.00	0.24	0.27	0.42	0.32	0.05	0.00	0.21	0.76	0.16
Average	1.07	1.03	0.99	1.05	0.84	1.00	1.19	1.58	1.46	1.43	0.96	0.91	1.25	1.03	0.91	1.30	1.37	1.76	0.97
Maximum	1.88	2.7	1.93	2.35	2.53	1.93	3.30	2.84	5.08	4.20	2.07	2.73	2.09	1.74	2.35	3.28	2.96	3.86	2.18
Total	12.79	12.33	11.87	12.60	10.13	11.94	14.25	18.96	17.54	17.14	11.52	10.88	15.03	12.33	10.88	15.55	16.40	21.15	11.61



This data is obtained from the internet at www.wrcc.dri.edu/summary/Climsmco.html select Paonia 1 SW (056306).

** No data recorded during the 2023 water year

**Monitoring Point Reports
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				Chart Fig No.
<i>Indicates the monitoring point has been removed/suspended</i>				
Surface Water Monitoring Stations: SPRINGS WITH PONDS				
SP5-1	Terror Creek - Spring/Pond 5-1	Monitoring Point Report Figure No.	1	
SP6-4	Terror Creek - Spring/Pond 6-4	Monitoring Point Report Figure No.		
SP7-1	Terror Creek - Spring/Pond 7-1	Monitoring Point Report Figure No.	2	
SP7-5	Stevens Gulch - Spring/Pond 7-5	Monitoring Point Report Figure No.	3	
SP12-4	Stevens Gulch - Spring/Pond 12-4	Monitoring Point Report Figure No.		
SP16	Terror Creek - Spring/Pond 16	Monitoring Point Report Figure No.		
SP17	Terror Creek - Spring/Pond 17	Monitoring Point Report Figure No.	4	5
SP18	Terror Creek - Spring/Pond 18	Monitoring Point Report Figure No.	6	
SP19	Stevens Gulch - Spring/Pond 19	Monitoring Point Report Figure No.	7	
SP20	Terror Creek - Spring/Pond 20	Monitoring Point Report Figure No.	8	9
SP22	Terror Creek - Spring/Pond 22	Monitoring Point Report Figure No.	10	
SP23	Steven Gulch - Spring/Pond 23	Monitoring Point Report Figure No.	11	
SP34-11	Sheep Corral - Spring/Pond 34-11	Monitoring Point Report Figure No.	12	13
ST36-2	Flat Tanks above Stevens Gulch Road	Monitoring Point Report Figure No.		
ST36-4	Tank and Spring below Stevens Gulch Road	Monitoring Point Report Figure No.		
ST36-5	Tank and Spring above Stevens Gulch Road	Monitoring Point Report Figure No.		

Surface Water Monitoring Stations: SPRINGS

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Coal Member of Mesaverde

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SP5-1
Terror Creek - Pond Spring 5-1
Elevation - 7400

Initiated	7/18/1985	7/18/1985	7/18/1985
Activated	3/31/2015	3/31/2015	3/31/2015
Date	11/20/2023	8/31/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.00	0.94	7.36	0.00	0.92	4.12	Damp	Damp	seep
Inflow	GPM	0.00	0.00	0.00	0.00	0.26	2.96	Damp	Damp	0.10
Freeboard	Feet	0.00	0.00	0.00	0.00	0.00	1.00			0.00
Temperature	Celsius	4.1	12.8	23.2	3.80	11.04	20.10			12.1
Conductivity	umhos/cm	490	672	804	697.00	786.93	842.00			697
pH	su	7.3	8.2	9.0	7.62	8.14	8.55			8.11
Field Comments								No visible flow	No visible flow	
Lab Parameters	UNITS									
Bicarbonate	mg/L	256.0	383.5	441.6	453.00	467.50	482.00			
Carbonate	mg/L	16.0	16.0	16.0	0.00	0.00	0.00			
Chloride	mg/L	2.0	6.4	10.0	3.90	4.27	4.50			
Conductivity	umhos/cm	552.0	656.8	974.0	680.00	690.67	700.00			
Hardness	mg/L	182.0	250.8	287.0	246.00	250.33	256.00			
Acidity	mg/L	14.0	14.0	14.0	-410.00	-390.00	-380.00			
pH	su	6.4	7.9	8.7	7.58	7.84	8.05			
ResidueFilterable-TDS	mg/L	320.0	374.9	451.0	428.00	442.67	457.00			
ResidueNonFilterable-TSS	mg/L	2.0	128.0	742.0	91.30	119.15	147.00			
SAR		1.2	1.7	2.5	2.31	2.42	2.52			
Sulfate	mg/L	16.0	34.3	70.0	16.90	18.37	19.80			
Calcium (Dissolved)	mg/L	30.0	57.8	69.0	0.00	0.00	0.00			
Magnesium (Total)	mg/L	18.0	25.9	28.0	22.00	23.27	23.90			
Sodium (Dissolved)	mg/L	43.0	61.0	76.0	0.00	0.00	0.00			
Iron (Total)	mg/L	0.4	0.4	0.4	0.25	0.60	0.98			
Iron (Dissolved)	mg/L	0.1	0.1	0.1	0.01	0.03	0.05			
Manganese (Total)	mg/L	0.06	0.06	0.06	0.05	0.11	0.16			

The area of concern for monitoring point SP5-1 was affected by the mining operation on or about March 31, 2015.

Negative value of acidity indicates alkalinity

SP17
 Terror Creek - Pond Spring 17
 Depth 4'
 Elevation - 7520

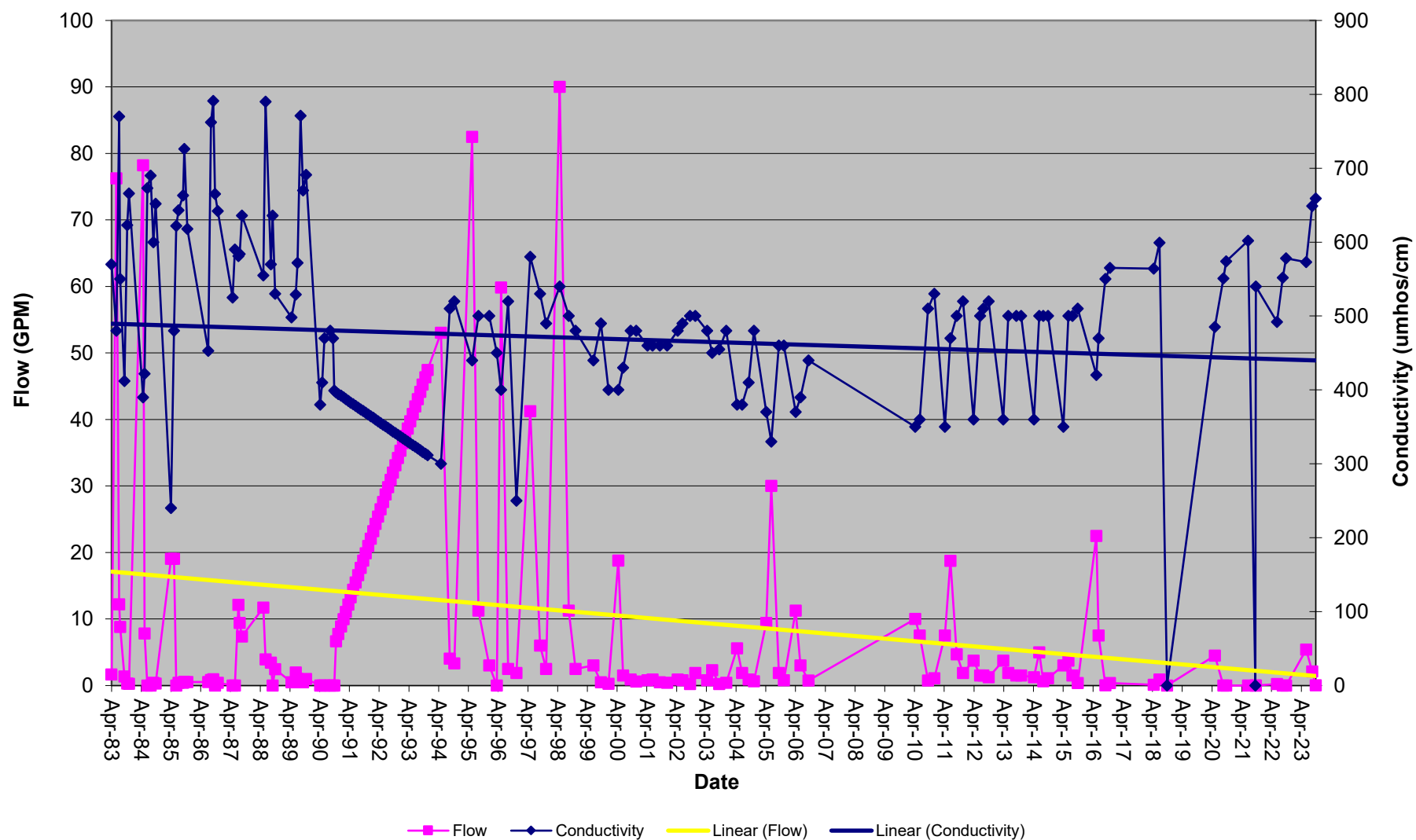
Initiated	4/15/1983	4/15/1983	4/15/1983
Activated			
Date	10/9/2023	8/28/2023	6/14/2023

Summary Information										
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0	2.57	31.7				0	0	4.5
Inflow	GPM	0	11.23	90				0.024	2.1	5.4
Freeboard	Feet	0	0	1.5				0.1	0.5	0
Temperature	Celsius	3.6	9.6	25				9.8	9.8	7.2
Conductivity	umhos/cm	240	477	791				659	649	573
pH	su	6.77	7.6	9.3				7.48	7.86	7.53
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	186.0	263.8	361.0						286
Chloride	mg/L	<MDL	10	202						2.91
Conductivity	umhos/cm	325	485	686						539
Hardness	mg/L	17.00	174.48	232.00						189
Nitrate-Nitrite	mg/L	<MDL	0.67	1.1						0.838
Oil and Grease	mg/L	<MDL	<MDL	<MDL						0
pH	su	6.8	7.6	8.4						8.4
Phosphate	mg/L	<MDL	<MDL	<MDL						<MDL
ResidueFilterable-TDS	mg/L	145	287	430						334
ResidueNonFilterable-TSS	mg/L	<MDL	19	74						52
SAR		1.08	2.55	41.10						1.5
Sulfate	mg/L	5.35	27.06	68						28.2
Aluminum (TREC)	mg/L	<MDL	201.800	1210						0.242
Arsenic (TREC)	mg/L	<MDL	0.01	0.02						<MDL
Cadmium (TREC)	mg/L	<MDL	0.01	0.01						<MDL
Calcium (TREC)	mg/L	33.7	44.0	56.2						50.1
Copper (TREC)	mg/L	<MDL	0.01	0.01						<MDL
Iron (TREC)	mg/L	0.0197	0.30	2.25						0.201
Lead (TREC)	mg/L	<MDL	0.02	0.04						0.0002
Magnesium (TREC)	mg/L	10.3	14.9	18.9						15.5
Manganese (TREC)	mg/L	<MDL	0.024	0.0862						<MDL
Mercury (TREC)	mg/L	<MDL	0.00008	0.00022						<MDL
Molybdenum (TREC)	mg/L	<MDL	0.003	0.006						<MDL
Selenium (TREC)	mg/L	<MDL	0.00435	0.014						0.00148
Sodium (TREC)	mg/L	32.2	49.5	112.6						47.1
Zinc (TREC)	mg/L	<MDL	0.010	0.02						<MDL

The area of concern for monitoring point SP17 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

A diffuse flow from an area of approximately 30' x 20' discharges into a pond measuring approximately 30' x 50'. (Hanna, 99)

Plot of Flow and Conductivity



SP18
Terror Creek - Pond Spring 18
Elevation - 7280

Initiated	4/15/1983	4/15/1983	4/15/1983
Activated			
Date	11/20/2023	8/31/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.00	1.01	3.96				0.00	Damp	1.90
Inflow	GPM	0.04	2.69	17.50				0.04	0.19	4.25
Freeboard	Feet	0.00	0.00	0.00				0	0	0
Temperature	Celsius	3.0	10.1	21.3				4.0	10.8	8.4
Conductivity	umhos/cm	260	634	832				525	715	661
pH	su	7.7	8.3	9.6				8.7	8.8	9.6
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	133.0	343.7	408.7						
Chloride	mg/L	3.00	7.94	62.04						
Conductivity	umhos/cm	230	606	892						
Hardness	mg/L	86.00	235.68	277.00						
Nitrate-Nitrite	mg/L	<MDL	0.5	0.8						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	7.2	8.0	8.3						
Phosphate	mg/L	<MDL	0.023	0.024						
ResidueFilterable-TDS	mg/L	110	344	678						
ResidueNonFilterable-TSS	mg/L	2	39	171						
SAR		0.89	1.39	1.84						
Sulfate	mg/L	10	27	53						
Aluminum (TREC)	mg/L	0.028	260.405	806.000						
Arsenic (TREC)	mg/L	<MDL	0.04	0.04						
Cadmium (TREC)	mg/L	<MDL	0.01	0.01						
Calcium (TREC)	mg/L	57.9	62.4	66.8						
Copper TREC)	mg/L	<MDL	0.003	0.003						
Iron (TREC)	mg/L	0.24	1.24	4.51						
Lead (TREC)	mg/L	0.03	0.03	0.03						
Magnesium (TREC)	mg/L	21.0	24.7	28.1						
Manganese (TREC)	mg/L	0.01	3.04	21.20						
Mercury (TREC)	mg/L	<MDL	0.00007	0.00007						
Molybdenum (TREC)	mg/L	<MDL	0.010	0.010						
Selenium (TREC)	mg/L	<MDL	0.012	0.012						
Sodium (TREC)	mg/L	49.1	56.7	69.7						
Zinc (TREC)	mg/L	<MDL	0.004	0.004						

The area of concern for monitoring point SP18 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Baseline Information Collection initiated on 4/15/83 and not yet considered complete.
Point SP18 has not been influenced by mining.

SP19
Steven's Gulch - Pond Spring 19
Elevation - 8240

Initiated	8/22/1983	8/22/1983	8/22/1983
Activated	2/28/2015	2/28/2015	2/28/2015
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0	0.41	8.62	0	0.25	3.75	0	0	0
Inflow	GPM	0	0.03	0.49	0	0.15	2.50	0	0	0
Freeboard	Feet	0	1.45	2.70	0	1.76	4.00	2.5	3.5	1.5
Temperature	Celsius	-1.4	17.66	27.50	12.5	15.20	17.90			
Conductivity	umhos/cm	110	286.89	545.00	140	146.75	153.50			
pH	su	7.7	8.43	10.00	8.1	8.23	8.35			
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	84.2	166.2	256.2						
Carbonate	mg/L									
Chloride	mg/L	<MDL	3	7						
Conductivity	umhos/cm	150	272	410						
Hardness	mg/L	61	120	185						
pH	su	6.9	7.5	8.4						
ResidueFilterable-TDS	mg/L	100	174	256						
ResidueNonFilterable-TSS	mg/L	6	64	396						
SAR		0.15	0.37	1.00						
Sulfate	mg/L	<MDL	24	101						
Calcium (Dissolved)	mg/L	16	28	41						
Magnesium (Total)	mg/L	5	12	20						
Sodium (Dissolved)	mg/L	3	9	23						

The area of concern for monitoring point SP19 was affected by the mining operation on or about February 28, 2015.

* Data not provided in field notes

SP20
Terror Creek - Pond Spring 20
Depth 4'
Elevation - 7840

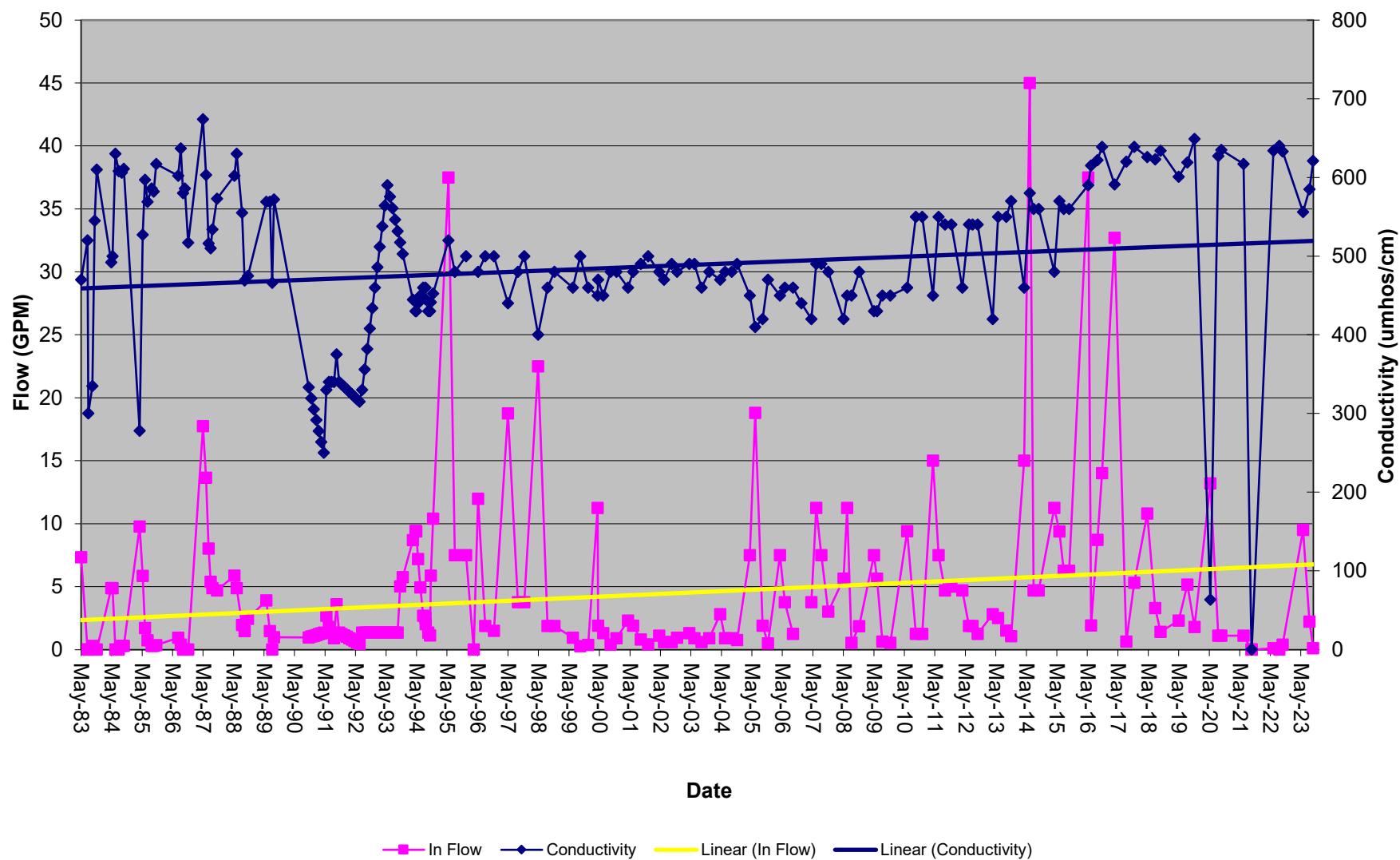
Initiated	5/15/1983	5/15/1983	5/15/1983
Activated	6/30/2013	6/30/2013	6/30/2013
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information										
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.0	0.6	2.3	0.0	4.9	42.2	0.11	3.40	7.70
Inflow	GPM	0.0	3.5	37.5	0.0	8.8	45.0	0.11	2.22	9.5
Freeboard	Feet	0.0	0.0	0.8	0.0	0.0	0.0	0	0	0
Temperature	Celsius	2.0	8.8	27.7	6.7	8.6	13.8	8.6	9.1	9.6
Conductivity	umhos/cm	250.0	471.2	674.0	460.0	596.5	649.0	621	585	556
pH	su	5.3	7.5	8.9	6.9	7.5	8.0	7.18	7.69	7.63
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	144.7	289.9	342.0	247.4	322.5	385.0			257
Chloride	mg/L	0.0	5.0	28.3	2.3	2.7	4.6			2.74
Conductivity	umhos/cm	311.5	513.5	714.0	465.0	525.6	591.0			524
Hardness	mg/L	108.0	207.6	511.9	197.0	224.2	243.0			208
Nitrate-Nitrite	mg/L	<MDL	0.3	0.3	<MDL	<MDL	0.1			0.077
Oil and Grease	mg/L	<MDL	<MDL	0.0	<MDL	<MDL	0.0			0
pH	su	6.7	7.4	8.5	7.0	7.6	8.5			8.5
Phosphate	mg/L	<MDL	<MDL	0.0	<MDL	0.0	0.2			0.16
ResidueFilterable-TDS	mg/L	240.0	318.8	460.0	324.0	356.7	438.0			324
ResidueNonFilterable-TSS	mg/L	<MDL	88.9	1800.0	<MDL	8.3	13.0			5
SAR		0.5	1.3	2.3	1.2	1.8	5.4			1.3
Sulfate	mg/L	0.8	12.5	60.0	0.0	29.2	34.2			29.8
Aluminum (TREC)	mg/L	<MDL	0.2	0.5	<MDL	46.6	186.0			<MDL
Arsenic (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			0.00029
Cadmium (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL
Calcium (TREC)	mg/L	36.3	69.1	128.3	42.1	53.9	59.8			50.6
Copper (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL
Iron (TREC)	mg/L	0.0	0.1	0.2	0.0	0.1	0.3			<MDL
Lead (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL
Magnesium (TREC)	mg/L	17.2	28.6	46.5	19.9	21.8	23.3			19.9
Manganese (TREC)	mg/L	<MDL	0.0	0.0	<MDL	7.7	23.0			<MDL
Mercury (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL
Molybdenum (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL
Selenium (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			0.00046
Sodium (TREC)	mg/L	40.2	47.6	53.1	42.9	51.2	124.8			42.9
Zinc (TREC)	mg/L	<MDL	0.0	0.0	<MDL	0.0	0.0			<MDL

Activated 6/30/2013

This spring and pond consists of an area of approximately 20' x 20' of diffuse flow which is collected in a pond of approximately 30' x 60'. (Hanna, 99)

Plot of Flow and Conductivity



SP22
Terror Creek - Pond Spring 22
Depth 4'
Elevation - 7480

Initiated	7/18/1983	7/18/1983	7/18/1983
Activated	8/5/2012	8/5/2012	8/5/2012
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Inflow	GPM	0.00	0.33	5.63	0.00	0.15	5.81	0.00	Damp	0.00
Outflow	GPM	0.00	0.00	0.00	0.00	0.01	0.20	0.00	0.00	0.00
Freeboard	Feet	0.0	1.1	4.0	0.00	1.29	6.00	3.50	3.50	0.80
Temperature	Celsius	6.9	16.9	28.6						
Conductivity	umhos/cm	343	661	915						
pH	su	7.3	8.3	9.7						
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	165.9	343.38	584						
Carbonate	mg/L	<MDL	1.9282	11.71						
Chloride	mg/L	1	7.6205	13						
Conductivity	umhos/cm	390	629.15	878						
Hardness	mg/L	132	277.64	377						
pH	su	7.3	8.013	8.56						
ResidueFilterable-TDS	mg/L	145	377.3	564						
ResidueNonFilterable-TSS	mg/L	4	20.579	65						
SAR		0.53	1.0868	1.897						
Sulfate	mg/L	14	48.52	230						
Calcium (Dissolved)	mg/L	17	57.892	90						
Magnesium (Total)	mg/L	12	32.355	51						
Sodium (Dissolved)	mg/L	14	40.51	63						

The monitoring point for Spring and Pond 22 is located on an east facing slope that drains down toward Terror Creek.

Baseline Information is derived from monitoring events beginning on 7/18/83 through 8/5/2012, Point SP22 influenced by mining on 8/5/12.

SP23
Stevens Gulch - Pond Spring 23
Elevation - 8300

Initiated	8/22/1983	8/22/1983	8/22/1983
Activated	7/15/2014	7/15/2014	7/15/2014
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.00	1.05	9.29	0.00		62.50	No Flow	No Flow	0.38
Inflow	GPM							Damp	Damp	0.00
Freeboard	Feet	0.00	0.02	0.28	0.00	0.80	3.10	0.75	0.25	0
Temperature	Celsius	-0.10	10.07	21.70	3.50	11.17	19.90			15.4
Conductivity	umhos/cm	220.00	403.91	891.00	220	397	521			387
pH	su	6.80	7.42	9.60	6.3	7.4	9.4			7.56
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	91.9	254.6	424.6						
Chloride	mg/L	<MDL	5.15	17.37						
Conductivity	umhos/cm	236	424	670						
Hardness	mg/L	105.00	209.37	322.00						
Nitrate-Nitrite	mg/L	0.11	0.11	0.11						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.4	7.3	8.4						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	156	270	380						
ResidueNonFilterable-TSS	mg/L	2	61	216						
SAR		0.120	0.437	1.010						
Sulfate	mg/L	<MDL	10.08	43.00						
Aluminum (TREC)	mg/L	0.0210	0.0210	0.0210						
Arsenic (TREC)	mg/L	0.0200	0.0200	0.0200						
Cadmium (TREC)	mg/L	0.0100	0.0100	0.0100						
Calcium (TREC)	mg/L	41.300	41.300	41.300						
Copper (TREC)	mg/L	0.003	0.003	0.003						
Iron (TREC)	mg/L	0.15	0.54	1.15						
Lead (TREC)	mg/L	0.05	0.05	0.05						
Magnesium (TREC)	mg/L	11.0	23.4	38.0						
Manganese (TREC)	mg/L	0.010	0.067	0.110						
Mercury (TREC)	mg/L	0.00008	0.00008	0.00008						
Molybdenum (TREC)	mg/L	0.0030	0.0030	0.0030						
Selenium (TREC)	mg/L	0.0180	0.0180	0.0180						
Sodium (TREC)	mg/L	15.78	15.78	15.78						
Zinc (TREC)	mg/L	0.010	0.010	0.010						

*Multiple Seeps Inflow - Unmeasurable

Activated 7/15/2014

Baseline Information Collection initiated on 8/22/83.
Point SP23 was influenced by mining 7/15/2014.

SP34-11
Sheep Corral - Spring/Pond 34-11
Elevation - 7440
Depth - 3'

Initiated	10/27/1997	10/27/1997	10/27/1997
Activated	6/1/2002	6/1/2002	6/1/2002
Date			

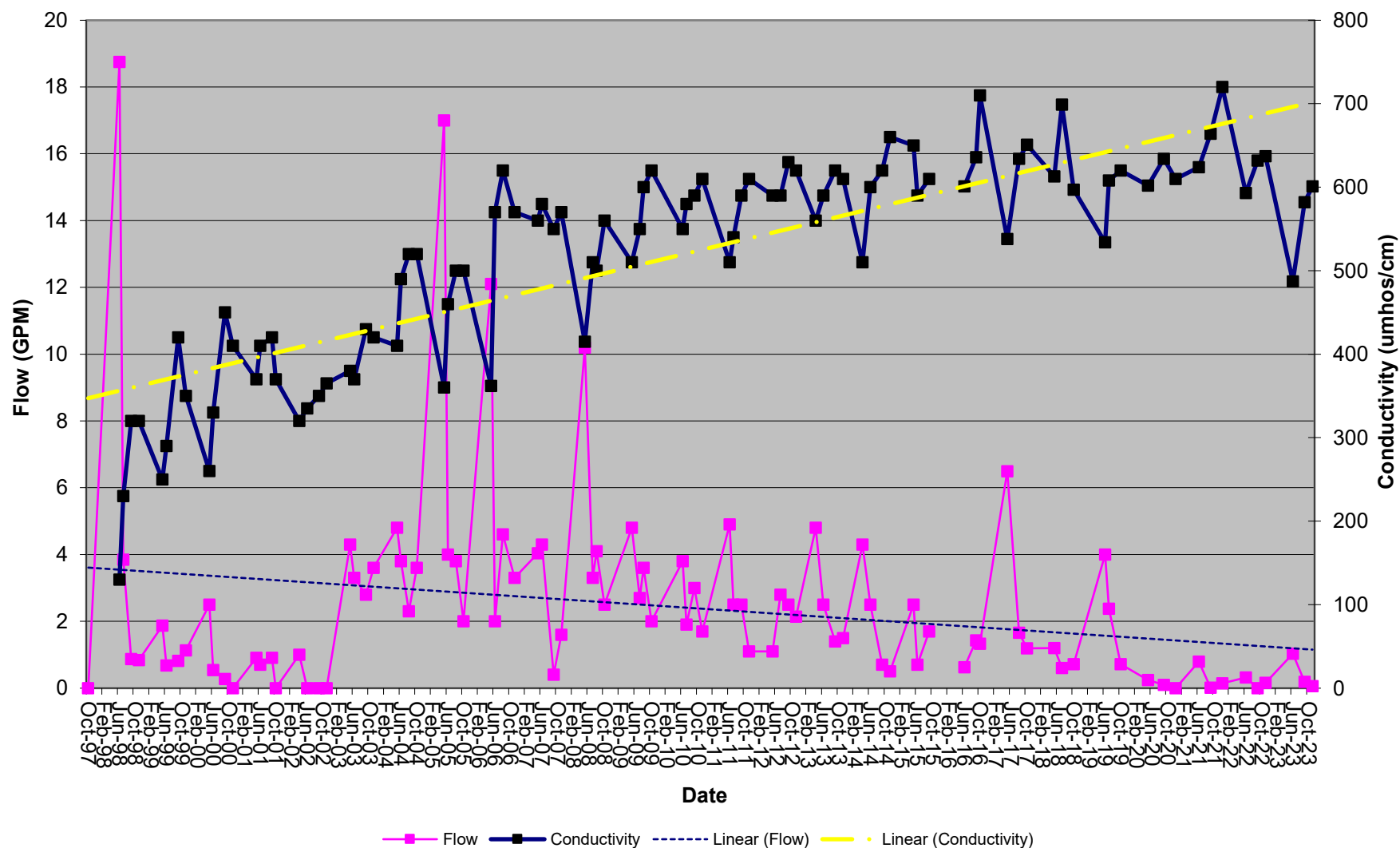
Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.0	2.2	18.8	0.0	2.57	17.00	0	0.08	1.5
Inflow	GPM				0.0	1.73	6.49	0.06	0.19	1.03
FieldComment										
ph	su	6.9	7.5	8.0	6.7	7.68	8.50	8.21	8.09	7.63
Conductivity	umhos/cm	130	325	450	360	565	720	601	582	487
Temperature	Celsius	6.1	10.0	15.1	4.1	7.7	12.8	4.1	7.2	5.8
Lab Parameters	UNITS									
Bicarbonate	mg/L	165	197	217	137.9	240.8	331.0			216
Chloride	mg/L	<MDL	2	3	<MDL	4.00	11.79			1.05
Conductivity	umhos/cm	324	412	482	367.8	491.6	633.0			459
Hardness	mg/L	92	103	111	100.0	122.8	152.5			105
Nitrate-Nitrite	mg/L	<MDL	0.03	0.09	<MDL	1.063	2.580			0.038
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	0.077	0.077			<MDL
pH	su	6.9	7.5	8.0	6.23	7.55	8.50			8.5
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.044	0.072			0.028
ResidueFilterable-TDS	mg/L	180	247	290	55.5	257.2	371.0			286
ResidueNonFilterable-TSS	mg/L	<MDL	51	154	<MDL	42.2	107.0			10
SAR		<MDL	<MDL	<MDL	2.09	3.19	4.75			2.8
Sulfate	mg/L	30	33	40	26.34	40.36	57.42			33.3
Aluminum	mg/L	0.04	2.15	6.34	<MDL	51.81	226.00			0.109
Arsenic	mg/L	<MDL	0.0003	0.001	0.001	0.010	0.015			<MDL
Cadmium	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.006			<MDL
Calcium	mg/L	27.5	30.3	32.1	7.7	32.4	43.6			31.3
Copper	mg/L	<MDL	0.31	0.92	<MDL	<MDL	<MDL			<MDL
Iron (Total)	mg/L	0.04	2.35	6.89	0.01	1.28	8.03			0.106
Lead	mg/L	<MDL	<MDL	<MDL	<MDL	0.02	0.03			<MDL
Magnesium	mg/L	5.7	6.7	7.5	3.41	7.30	10.60			6.43
Manganese (Total)	mg/L	<MDL	0.046	0.137	<MDL	0.03	0.11			<MDL
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL	0.0001	0.0002			<MDL
Molybdenum	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			<MDL
Selenium	mg/L	<MDL	<MDL	<MDL	0.0006	0.0125	0.0560			0.0006
Sodium	mg/L	30.8	49.5	64.1	59.7	177.3	807.0			64.3
Zinc	mg/L	<MDL	0.01	0.04	0.01	0.02	0.02			<MDL

The monitoring point for SP34-11 is along the old coal exploration road winding down Sheep Corral Gulch. The spring in sandstone just above the pond surface.

Baseline Information for Point SP34-11 is derived from events beginning on 10/27/97 through 6/1/02.
Point influenced by mining on 6/1/02.

Plot of Flow and Conductivity



SP7-1
Terror Creek - Pond Spring 7-1
Depth 3'
Elevation - 7780

Initiated	7/25/1985	7/25/1985	7/25/1985
Activated	6/1/2013	6/1/2013	6/1/2013
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0	3.35	30	0	2.75	16.91	0.04	0.1	4.8
Inflow	GPM	0	0.00	0	0	2.63	10.9	Large Seep	0.48	8.5
Freeboard	Feet	0	1.07	3	0	0.40	1.5	0	0	0
Temperature	Celsius	10.3	16.68	32	7.4	15.51	22.8	12.5	17.2	16.1
Conductivity	umhos/cm	353	602.53	928	539	613.29	742	623	566	556
pH	su	6.7	7.95	9.4	7.38	8.07	8.63	7.62	8.09	8.28
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	226	382.24	603	253.28	308.06	368			266
Chloride	mg/L	2	8.98	54.59	2.3	4.72	13.08			2.53
Conductivity	umhos/cm	450	633.06	1120	475	522.80	585			522
Hardness	mg/L	145	233.44	295	190.28	223.86	254			209
Nitrate-Nitrite	mg/L	0.3	0.30	0.3	0.031	0.04	0.045			0.045
Oil and Grease	mg/L	0	<MDL	0	0	<MDL	0			0
pH	su	7	7.81	8.4	7.18	8.08	8.6			8.6
Phosphate	mg/L	0	<MDL	0	0.073	0.12	0.19			0.19
ResidueFilterable-TDS	mg/L	280	404.33	808	330	359.20	382			330
ResidueNonFilterable-TSS	mg/L	2	85.47	580	7	35.62	81.2			15
SAR		1.2	1.70	2.9	1.3	1.87	3.681			1.3
Sulfate	mg/L	10	20.32	39	27.99	29.92	33.6			29.7
Aluminum (TREC)	mg/L	0.034	0.03	0.034	0.12	199.98	999			0.447
Arsenic (TREC)	mg/L	0.06	0.06	0.06	0.0004	0.00	0.002			0.00041
Cadmium (TREC)	mg/L	0.02	0.02	0.02	0.002	0.00	0.002			<MDL
Calcium (TREC)	mg/L	33	50.86	70.6	41.9	52.34	58.8			50
Copper (TREC)	mg/L	0.003	0.00	0.003	0.009	0.01	0.009			<MDL
Iron (TREC)	mg/L	1.24	1.24	1.24	0.157	0.49	1.19			0.544
Lead (TREC)	mg/L	0.02	0.02	0.02	0.0003	0.01	0.02			0.00031
Magnesium (TREC)	mg/L	13.9	25.89	37	20.4	22.60	26.1			20.4
Manganese (TREC)	mg/L	0.376	0.38	0.376	0.029	0.05	0.0904			0.029
Mercury (TREC)	mg/L	0.00003	0.00	0.00003	2E-05	0.00	2E-05			<MDL
Molybdenum (TREC)	mg/L	0.007	0.01	0.007	0.001	0.00	0.001			<MDL
Selenium (TREC)	mg/L	0.003	0.00	0.003	0.0004	0.00	0.002			0.00035
Sodium (TREC)	mg/L	78.1	78.10	78.1	43.7	62.92	116.7			43.7
Zinc (TREC)	mg/L	0.01	0.01	0.01	0.02	0.02	0.02			<MDL

The area of concern for monitoring point SP7-1 was activated on or about 06/1/2013.

SP7-5
Steven's Gulch - Pond Spring 7-5
Elevation - 8300

Initiated	7/6/1983	7/6/1983	7/6/1983
Activated			
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Inflow	GPM	0.00	0.79	4.49				No flow	Seep	0.211
Outflow	GPM	0.00	0.10	0.75				0.000	0.000	0.000
Freeboard	Feet	0.00	0.91	6.00				2.5	0.5	1.5
Temperature	Celsius	3.5	9.3	21.7						4.9
Conductivity	umhos/cm	145	319	800						236
pH	su	6.4	7.5	9.0						7.49
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	71.81	183.45	227.00						
Chloride	mg/L	<MDL	4.39	19.82						
Conductivity	umhos/cm	184	298	430						
Hardness	mg/L	74.97	154.5	228.0						
Nitrate-Nitrite	mg/L	<MDL	0.256	0.256						
Oil & Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.7	7.4	8.4						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	163	204	260						
ResidueNonFilterable-TSS	mg/L	<MDL	42	236						
SAR		0.250	0.350	0.933						
Sulfate	mg/L	<MDL	18.2	154.0						
Aluminum (TREC)	mg/L	<MDL	0.022	0.022						
Arsenic (TREC)	mg/L	<MDL	0.04	0.04						
Cadmium (TREC)	mg/L	<MDL	0.01	0.01						
Calcium (TREC)	mg/L	19.8	27.7	35.6						
Copper (TREC)	mg/L	<MDL	0.02	0.02						
Iron (TREC)	mg/L	0.10	0.31	0.62						
Lead (TREC)	mg/L	<MDL	0.05	0.05						
Magnesium (TREC)	mg/L	6.2	16.1	27.0						
Manganese (TREC)	mg/L	<MDL	0.02	0.02						
Mercury (TREC)	mg/L	<MDL	0.00004	0.00004						
Molybdenum (TREC)	mg/L	<MDL	0.006	0.006						
Selenium (TREC)	mg/L	<MDL	0.023	0.023						
Sodium (TREC)	mg/L	8.50	17.53	26.56						
Zinc (TREC)	mg/L	<MDL	0.006	0.006						

The area of concern for monitoring point SP7-5 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

S-1
B Gulch - Spring 1
Elevation - 6990

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	3/30/1997	3/30/1997	3/30/1997
Date	10/9/2023	9/5/2023	5/23/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.38	1.25	0.00	0.04	3.00	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	8.4	8.6	8.7	8.1	8.3	8.5			
Conductivity	umhos/cm	1520	2053	2300	2000	2067	2200			
Temperature	Celsius	2.4	10.5	17.1	12.8	17.2	20.1			
Lab Parameters	UNITS									
Bicarbonate	mg/L	784	784	784						
Chloride	mg/L	28	28	28						
Conductivity	umhos/cm	2140	2140	2140						
Hardness	mg/L	570	570	570						
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	7.5	7.5	7.5						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	1480	1480	1480						
ResidueNonFilterable-TSS	mg/L	30	30	30						
SAR		5.66	5.66	5.66						
Sulfate	mg/L	490	490	490						
Aluminum	mg/L	0.89	0.89	0.89						
Arsenic	mg/L	<MDL	<MDL	<MDL						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	52	52	52						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	1.01	1.01	1.01						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	107	107	107						
Manganese (Total)	mg/L	0.017	0.017	0.017						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	0.002	0.002	0.002						
Sodium	mg/L	307	307	307						
Zinc	mg/L	0.01	0.01	0.01						

* Site not accessible 1Q

The S-1 monitoring point location is along the Stevens Draw road where it crosses B Gulch. This spring is located on the upper side of the road, discharges along the road and eventually contributes its flow through Sediment Pond B.

Baseline Information for Point S-1 is derived from events beginning on 6/12/95 through 3/30/97.
Point influenced by mining on 3/20/97.

S-2
Freeman Gulch - Spring 2
Elevation - 7920

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	11/10/2001	11/10/2001	11/10/2001
Date	11/20/2023	9/5/2023	6/5/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.22	1.88	0.00	0.00	0.30	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	6.8	7.3	7.8						
Conductivity	umhos/cm	40	106	525						
Temperature	Celsius	1.2	10.2	19.1						
Lab Parameters	UNITS									
Bicarbonate	mg/L	57	57	57						
Chloride	mg/L	1	1	1						
Conductivity	umhos/cm	126	126	126						
Hardness	mg/L	44	44	44						
Nitrate-Nitrite	mg/L	0.51	0.51	0.51						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.0	6.0	6.0						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	90	90	90						
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL						
SAR		0.43	0.43	0.43						
Sulfate	mg/L	<MDL	<MDL	<MDL						
Aluminum	mg/L	0.10	0.10	0.10						
Arsenic	mg/L	0.002	0.002	0.002						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	14.2	14.2	14.2						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.71	0.71	0.71						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	2.1	2.1	2.1						
Manganese (Total)	mg/L	0.063	0.063	0.063						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	6.5	6.5	6.5						
Zinc	mg/L	<MDL	<MDL	<MDL						

* Site not accessible 1Q

The monitoring point for S-2 is located along the old coal exploration road which leads down into Freeman Gulch, to Pond 2, Drill holes 34B and 34C and the monitoring point for the Upper end of Freeman Gulch.

Baseline Information for Point S-2 is derived from events beginning on 6/12/95 through 11/10/01.
Point influenced by mining on 11/10/01.

S-3
Freeman Gulch - Spring 3
Elevation - 7920

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	10/15/2001	10/15/2001	10/15/2001
Date	11/20/2023	9/5/2023	6/7/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.00	0.29	3.75	0.00	0.00	0.00	0	0	0
FieldComment								Dry	Dry	Damp
ph	su	6.7	7.8	8.5						
Conductivity	umhos/cm	120	222	443						
Temperature	Celsius	7.6	15.6	28.7						
Lab Parameters	UNITS									
Bicarbonate	mg/L	77	77	77						
Chloride	mg/L	4	4	4						
Conductivity	umhos/cm	164	164	164						
Hardness	mg/L	72	72	72						
Nitrate-Nitrite	mg/L	0.05	0.05	0.05						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	7.5	7.5	7.5						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	110	110	110						
ResidueNonFilterable-TSS	mg/L	8	8	8						
SAR		0.34	0.34	0.34						
Sulfate	mg/L	<MDL	<MDL	<MDL						
Aluminum	mg/L	0.35	0.35	0.35						
Arsenic	mg/L	<MDL	<MDL	<MDL						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	21.7	21.7	21.7						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.37	0.37	0.37						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	4.2	4.2	4.2						
Manganese (Total)	mg/L	0.014	0.014	0.014						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	6.6	6.6	6.6						
Zinc	mg/L	<MDL	<MDL	<MDL						

* Site not accessible 1Q

The monitoring point for S-3 is located along the old coal exploration road which leads down into Freeman Gulch, to Pond 2, Drill Holes 34B and 34C and the monitoring point for the Upper end of Freeman Gulch.

Baseline Information for Point S-3 is derived from events beginning on 6/12/95 through 10/15/01.
Point influenced by mining on 10/15/01.

S-4
Terror Creek - Spring 4
Elevation - 7880

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	1/15/2001	1/15/2001	1/15/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

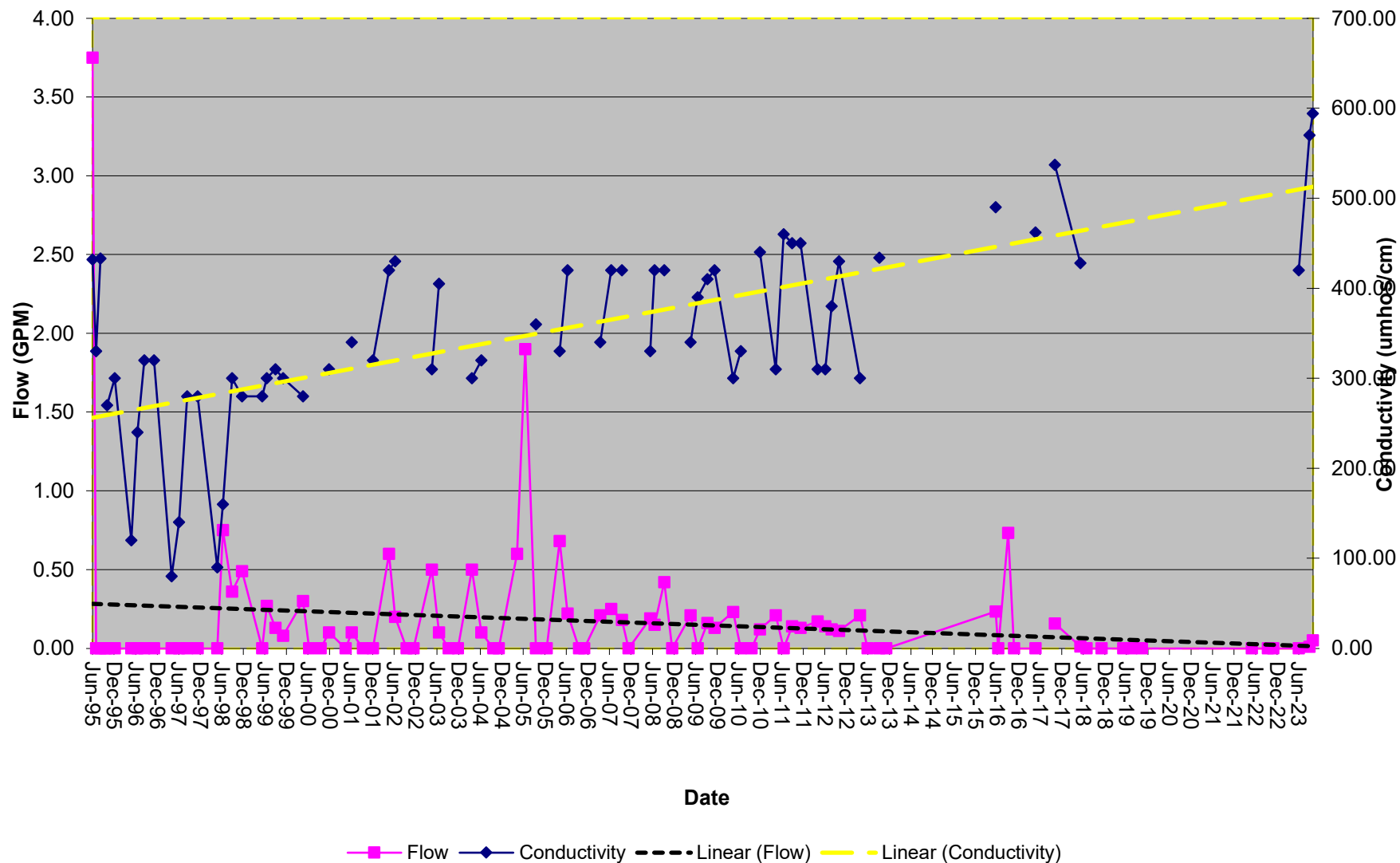
Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.00	0.24	3.75	0.00	0.21	2.37	0	0.01	0.05
FieldComment								Large Seep		
ph	su	6.4	7.4	9.0	6.8	7.5	8.0	7.07	7.52	7.6
Conductivity	umhos/cm	80	268	433	300	396	594	594	570	420
Temperature	Celsius	1.2	10.0	24.0	1.8	6.5	10.7	7.1	7.1	7.4
Lab Parameters	UNITS									
Bicarbonate	mg/L	56	56	56	231.8	231.8	231.8			
Chloride	mg/L	2	2	2	49.63	49.63	49.63			
Conductivity	umhos/cm	99	99	99	438	441	443			
Hardness	mg/L	44	44	44	150.69	150.69	150.69			
Nitrate-Nitrite	mg/L	0.62	0.62	0.62	0.32	0.32	0.32			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
pH	su	6.7	6.7	6.7	6.8	6.9	7.1			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	60	60	60	236	245	253			
ResidueNonFilterable-TSS	mg/L	16	16	16	1	19	36			
SAR		0.29	0.29	0.29	1.85	1.85	1.85			
Sulfate	mg/L	<MDL	<MDL	<MDL	60.51	60.51	60.51			
Aluminum (TREC)	mg/L	0.98	0.98	0.98	0.039	0.039	0.039			
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL	0.03	0.03	0.03			
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	0.01	0.01	0.01			
Calcium (TREC)	mg/L	13.6	13.6	13.6	46	46	46			
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	0.01	0.01	0.01			
Iron (TREC)	mg/L	0.88	0.88	0.88	0.15	0.56	0.97			
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	0.03	0.03	0.03			
Magnesium (TREC)	mg/L	2.4	2.4	2.4	8.7	8.7	8.7			
Manganese (TREC)	mg/L	0.03	0.03	0.03	0.020	0.026	0.032			
Mercury (TREC)	mg/L	0.0002	0.0002	0.0002	0.00006	0.00006	0.00006			
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	0.005	0.005	0.005			
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	0.008	0.008	0.008			
Sodium (TREC)	mg/L	4.5	4.5	4.5	52.9	52.9	52.9			
Zinc (TREC)	mg/L	<MDL	<MDL	<MDL	0.005	0.005	0.005			

The monitoring point for S-4 is located along an unmarked road in an un-named gulch leading down from the broad ridge that separates Sheep Corral and Freeman Gulches from Terror Creek. This spring feeds P-4.

* Site not accessible 1Q

Baseline Information for Point S-4 is derived from events beginning on 6/12/95 through 1/15/01.
Point influenced by mining on 1/15/01.

Plot of Flow and Conductivity



S-4a
Terror Creek - Spring 4a
Elevation - 7910

Initiated	11/9/1995	11/9/1995	11/9/1995
Activated	1/15/2001	1/15/2001	1/15/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

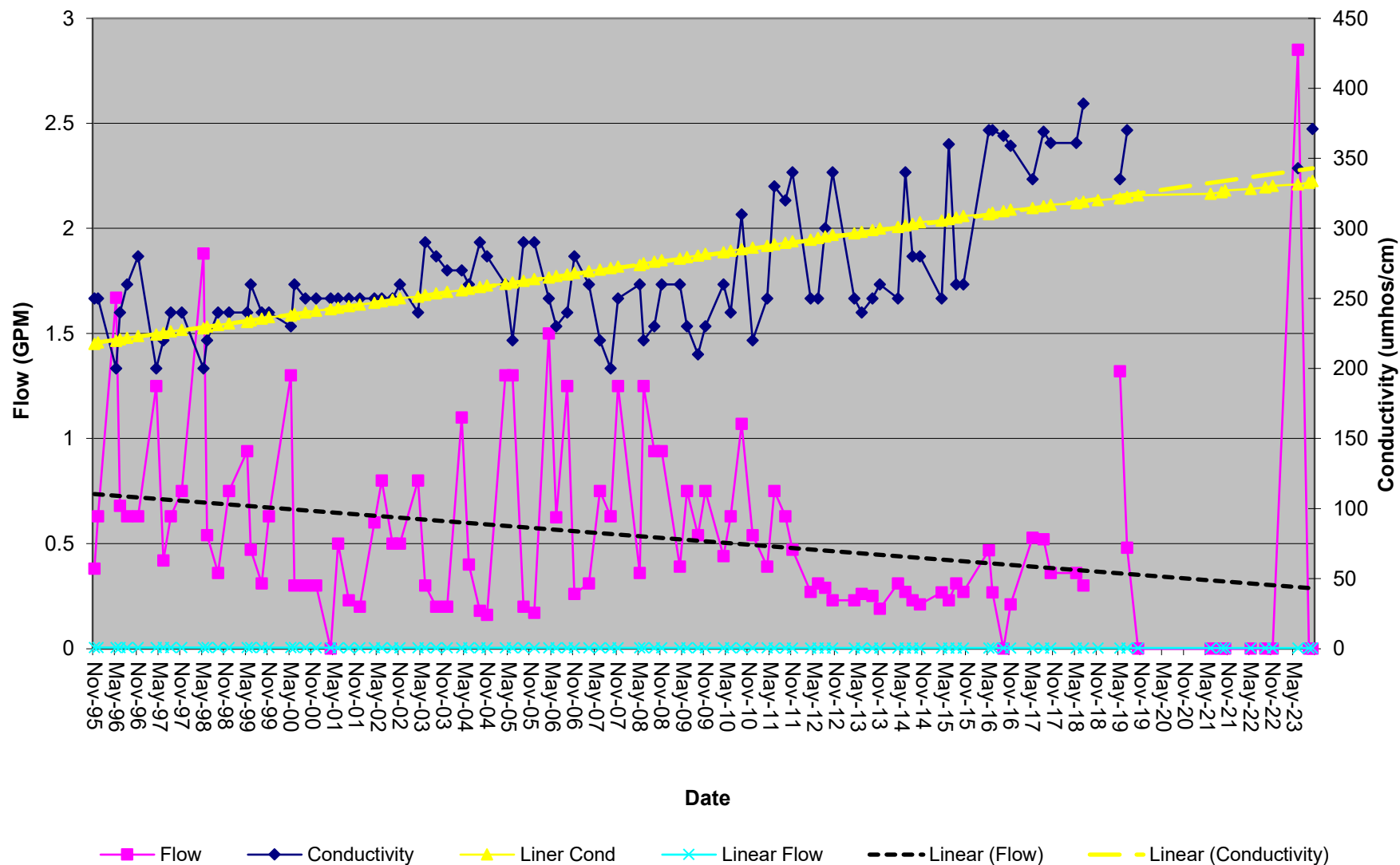
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.30	0.72	1.88	0.00	0.53	2.85	0		2.85
FieldComment								Seep	Damp	
ph	su	7.2	7.8	8.5	6.3	7.5	8.1	7.18		8.06
Conductivity	umhos/cm	200	239	280	200	282	389	371		343
Temperature	Celsius	2.4	7.4	14.2	4.3	6.6	15.0	6.8		8.2
Lab Parameters	UNITS									
Bicarbonate	mg/L	146	146	146	204.9	204.9	204.9			
Chloride	mg/L	2	2	2	47.15	47.15	47.15			
Conductivity	umhos/cm	289	289	289	313	321	330			
Hardness	mg/L	125	125	125	131.95	131.95	131.95			
Nitrate-Nitrite	mg/L	0.16	0.16	0.16	0.31	0.31	0.31			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
pH	su	7.30	7.30	7.30	7.1	7.3	7.5			
Phosphate	mg/L	0.08	0.08	0.08	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	200	200	200	196	226	263			
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL	2	27	48			
SAR		0.49	0.49	0.49	0.658	0.658	0.658			
Sulfate	mg/L	13	13	13	14.41	14.41	14.41			
Aluminum (TREC)	mg/L	0.88	0.88	0.88	0.023	0.023	0.023			
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL	0.005	0.005	0.005			
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	0.006	0.006	0.006			
Calcium (TREC)	mg/L	43.10	43.10	43.10	44.4	44.4	44.4			
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	0.002	0.002	0.002			
Iron (TREC)	mg/L	1.23	1.23	1.23	0.08	0.54	1.24			
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	0.03	0.03	0.03			
Magnesium (TREC)	mg/L	4.30	4.30	4.30	5.12	5.12	5.12			
Manganese (TREC)	mg/L	0.02	0.02	0.02	0.01	0.02	0.03			
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	0.00008	0.00008	0.00008			
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	0.007	0.007	0.007			
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	0.008	0.008	0.008			
Sodium (TREC)	mg/L	12.5	12.5	12.5	17.6	17.6	17.6			
Zinc (TREC)	mg/L	0.03	0.03	0.03	0.006	0.006	0.006			

* Site not accessible 1Q

The monitoring point for S-4a is located along an unmarked road in an un-named gulch leading down from the broad ridge that separates Sheep Corral and Freeman Gulches from Terror Creek. This spring feeds P-4.

Baseline Information for Point S-4a is derived from events beginning on 11/9/95 through 1/15/01.
Point influenced by mining on 1/15/01.

Plot of Flow and Conductivity



S-5
Sheep Corral - Spring 5
Elevation - 7800

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	12/1/2001	12/1/2001	12/1/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.27	0.80	0.00	0.22	3.00	0		0.6
FieldComment								Dry	Dry	
ph	su	7.2	7.6	8.1	7.1	7.4	8.4			8.06
Conductivity	umhos/cm	190	332	400	310	361	430			412
Temperature	Celsius	4.0	7.2	11.8	5.0	6.6	8.9			8.1
Lab Parameters	UNITS									
Bicarbonate	mg/L	188	191	193	203.5	203.5	203.5			
Chloride	mg/L	2	2	2	32.26	32.26	32.26			
Conductivity	umhos/cm	406	407	407	414	414	414			
Hardness	mg/L	113	118	123	132.93	132.93	132.93			
Nitrate-Nitrite	mg/L	<MDL	0.08	0.15	0.31	0.31	0.31			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
pH	su	6.90	7.00	7.10	7.08	7.08	7.08			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	220	225	230	268	268	268			
ResidueNonFilterable-TSS	mg/L	<MDL	14	28	6	6	6			
SAR		1.51	1.52	1.53	1.78	1.78	1.78			
Sulfate	mg/L	17	23	29	33.75	33.75	33.75			
Aluminum (TREC)	mg/L	<MDL	0.16	0.32	0.028	0.028	0.028			
Arsenic (TREC)	mg/L	<MDL	0.001	0.001	0.006	0.006	0.006			
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	0.008	0.008	0.008			
Calcium (TREC)	mg/L	34.00	35.55	37.10	40.9	40.9	40.9			
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	0.002	0.002	0.002			
Iron (TREC)	mg/L	<MDL	0.32	0.64	0.05	0.05	0.05			
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	0.03	0.03	0.03			
Magnesium (TREC)	mg/L	6.70	7.00	7.30	7.48	7.48	7.48			
Manganese (TREC)	mg/L	0.017	0.027	0.037	0.003	0.003	0.003			
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	0.00006	0.00006	0.00006			
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	0.011	0.011	0.011			
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	0.012	0.012	0.012			
Sodium (TREC)	mg/L	36.50	37.45	38.40	47.8	47.8	47.8			
Zinc (TREC)	mg/L	<MDL	0.005	0.010	0.006	0.006	0.006			

* Site not accessible 1Q

The monitoring point location for S-5 is located along an unmapped road which leads down an un-named gulch which leads into Sheep Corral Gulch. This spring feeds Pond 5.

Baseline Information for Point S-5 is derived from events beginning on 6/12/95 through 12/1/01.
Point influenced by mining on 12/1/01.

S-5a
Sheep Corral - Spring 5A
Elevation - 7860

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	12/1/2001	12/1/2001	12/1/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.13	0.89	4.30	0.00	0.26	3.00	0		1.9
FieldComment								Dry	Dry	
ph	su	6.9	7.4	8.0	7.0	7.4	8.3			7.93
Conductivity	umhos/cm	160	301	400	340	388	448			433
Temperature	Celsius	4.0	6.7	9.1	5.1	6.6	7.8			7
Lab Parameters	UNITS									
Bicarbonate	mg/L	184.00	185.00	186.00						
Chloride	mg/L	2.00	2.00	2.00						
Conductivity	umhos/cm	388	391	393						
Hardness	mg/L	125.00	128.00	131.00						
Nitrate-Nitrite	mg/L	<MDL	0.03	0.05						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.90	7.40	7.90						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	190.00	205.00	220.00						
ResidueNonFilterable-TSS	mg/L	<MDL	17.00	34.00						
SAR		1.10	1.11	1.12						
Sulfate	mg/L	21.00	25.00	29.00						
Aluminum	mg/L	<MDL	0.34	0.69						
Arsenic	mg/L	<MDL	<MDL	<MDL						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	37.80	38.70	39.60						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.02	0.48	0.95						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	7.50	7.70	7.90						
Manganese (Total)	mg/L	<MDL	0.019	0.037						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	28.10	28.60	29.10						
Zinc	mg/L	0.02	0.02	0.02						

* Site not accessible 1Q

The monitoring point location for S-5a is located along an unmapped road which is down an un-named gulch which leads into Sheep Corral Gulch. This spring feeds Pond 5.

Baseline Information for Point S-5a is derived from events beginning on 9/27/95 through 12/1/01.
Point influenced by mining on 12/1/01.

S-5b
Sheep Corral - Spring 5B
Elevation - 7860

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	12/1/2001	12/1/2001	12/1/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			*
Flow	GPM				0.01	0.54	2.90	0.05	0.05	0.32
FieldComment										
ph	su				7.0	7.9	8.9	7.3	8.1	8.0
Conductivity	umhos/cm				400	529	701	571	559	483
Temperature	Celsius				4.4	8.2	13.6	7.8	7.9	8.4
Lab Parameters	UNITS									
Bicarbonate	mg/L				277.8	277.8	277.8			
Chloride	mg/L				22.33	22.33	22.33			
Conductivity	umhos/cm				541	562	580			
Hardness	mg/L				114.78	114.78	114.78			
Nitrate-Nitrite	mg/L				0.32	0.32	0.32			
Oil and Grease	mg/L				<MDL	<MDL	<MDL			
pH	su				7.30	7.54	7.77			
Phosphate	mg/L				<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L				312	353	406			
ResidueNonFilterable-TSS	mg/L				14	30	60			
SAR					3.62	3.62	3.62			
Sulfate	mg/L				41.98	41.98	41.98			
Aluminum (TREC)	mg/L				0.034	0.034	0.034			
Arsenic (TREC)	mg/L				0.055	0.055	0.055			
Cadmium (TREC)	mg/L				0.01	0.01	0.01			
Calcium (TREC)	mg/L				33.4	33.4	33.4			
Copper (TREC)	mg/L				0.01	0.01	0.01			
Iron (TREC)	mg/L				0.24	0.51	0.81			
Lead (TREC)	mg/L				0.02	0.02	0.02			
Magnesium (TREC)	mg/L				7.62	7.62	7.62			
Manganese (TREC)	mg/L				0.083	0.118	0.180			
Mercury (TREC)	mg/L				0.00004	0.00004	0.00004			
Molybdenum (TREC)	mg/L				0.013	0.013	0.013			
Selenium (TREC)	mg/L				0.004	0.004	0.004			
Sodium (TREC)	mg/L				90.5	90.5	90.5			
Zinc (TREC)	mg/L				0.005	0.005	0.005			

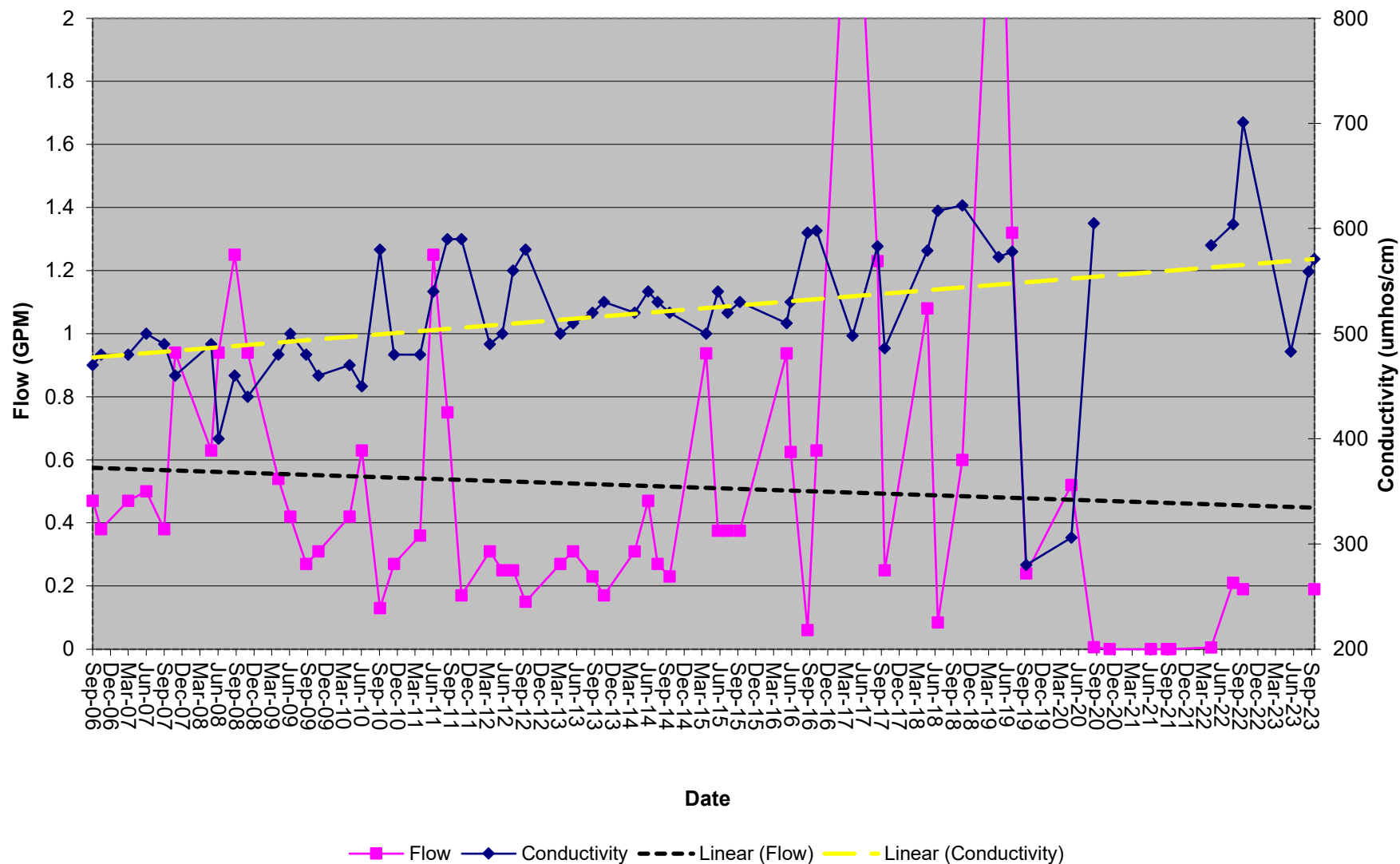
The area of concern for monitoring point S-5b was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

The monitoring point location for S-5b is located along an unmapped road which is down an un-named gulch which leads into Sheep Corral Gulch. It is located across the draw from Springs 5 and 5a to the west.

* Site not accessible 1Q

There is no baseline information collection possible for points initiated after the influence of mining.

Plot of Flow and Conductivity



S-8
C Gulch - Spring 8
Elevation - 7220

Initiated	6/12/1995	6/12/1995	6/12/1995
Activated	11/1/2002	11/1/2002	11/1/2002
Date	10/9/2023	9/5/2023	5/23/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.08	2.50	0.00	0.00	0.00	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	6.90	6.90	6.90						
Conductivity	umhos/cm	1380	1380	1380						
Temperature	Celsius	13.70	13.70	13.70						
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site not accessible 1Q

The monitoring point for S-8 is located just above the mine portal road which crosses over the mine portals on the utility bench of the mi

Baseline Information for Point S-8 is derived from events beginning on 6/12/95 through 11/1/02.
Point influenced by mining on 11/1/02.

S-10
Stevens Draw - Spring 10
Elevation - 7550

Initiated	7/12/1995	7/12/1995	7/12/1995
Activated	11/1/2002	11/1/2002	11/1/2002
Date	10/9/2023	9/5/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.17	2.50	0.00	0.00	0.01	0	0	0.01
FieldComment								Dry	Dry	
ph	su	8.40	8.50	8.60						8.07
Conductivity	umhos/cm	620	640	660						992
Temperature	Celsius	19.80	21.10	22.40						11.9
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site not accessible 1Q

The monitoring point for S-10 is located along the Stevens Draw road and is located on the lower side of the road.

Baseline Information for Point S-10 is derived from events beginning on 7/12/95 through 11/1/02.
Point influenced by mining on 11/1/02.

S-11
Stevens Draw - Spring 11
Elevation - 7940

Initiated	7/12/1995	7/12/1995	7/12/1995
Activated	1/15/2001	1/15/2001	1/15/2001
Date	10/9/2023	9/5/2023	5/22/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.00	0.00	0.00	0.06	4.00	0	0	0
FieldComment								Dry	Dry	Damp
ph	su				7.6	7.6	7.6			
Conductivity	umhos/cm				160	160	160			
Temperature	Celsius				7.7	7.7	7.7			
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable -TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site not accessible 1Q

The monitoring point for S-11 is located along the Stevens Draw road and is located on the lower side of the road.

Baseline Information for Point S-11 is derived from events beginning on 7/12/95 through 1/15/01.
Point influenced by mining on 1/15/01.

S-12
B Gulch - Spring 12
Elevation - 7650

Initiated	7/12/1995	7/12/1995	7/12/1995
Activated	7/1/2004	7/1/2004	7/1/2004
Date	10/9/2023	9/5/2023	5/22/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation						*
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	
FieldComment								Dry	Dry	Damp	
ph	su										
Conductivity	umhos/cm										
Temperature	Celsius										
Lab Parameters	UNITS										
Bicarbonate	mg/L										
Chloride	mg/L										
Conductivity	umhos/cm										
Hardness	mg/L										
Nitrate-Nitrite	mg/L										
Oil and Grease	mg/L										
pH	su										
Phosphate	mg/L										
ResidueFilterable-TDS	mg/L										
ResidueNonFilterable -TSS	mg/L										
SAR											
Sulfate	mg/L										
Aluminum	mg/L										
Arsenic	mg/L										
Cadmium	mg/L										
Calcium	mg/L										
Copper	mg/L										
Iron (Total)	mg/L										
Lead	mg/L										
Magnesium	mg/L										
Manganese (Total)	mg/L										
Mercury	mg/L										
Molybdenum	mg/L										
Selenium	mg/L										
Sodium	mg/L										
Zinc	mg/L										

* Site not accessible 1Q

The monitoring point for S-12 is located along a switchback road that ascends the southern facing exposure of the canyon wall of the Nor Fork of the Gunnison River. The road leads to the broad ridge which separates the Hubbard Creek and Terror Creek drainage systems.

Baseline Information for Point S-12 is derived from events beginning on 7/12/95 through 7/1/04.
Point Influenced by mining on 7/1/04.

S-13
Freeman Gulch - Spring 13
Elevation - 7500

Initiated	9/27/1995	9/27/1995	9/27/1995
Activated	11/18/1999	11/18/1999	11/18/1999
Date	10/9/2023	9/28/2023	5/31/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.01	0.27	0.00	0.01	0.94	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	8.2	8.2	8.2						
Conductivity	umhos/cm	300	300	300						
Temperature	Celsius	10.0	10.0	10.0						
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site not accessible 1Q

The monitoring point for S-13 is located along an old coal exploration road which eventually reaches Drillhole 13. This spring is located on the northern facing slopes of Freeman Gulch.

Baseline Information for Point S-13 is derived from events beginning on 9/27/95 through 11/18/99.
Point influenced by mining on 11/18/99.

S-14
Stevens Draw - Spring 14
Elevation - 7100

Initiated	9/27/1995	9/27/1995	9/27/1995
Activated			
Date	10/9/2023	9/28/2023	5/31/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.16	4.00				0	0	0
FieldComment								Dry	Dry	Dry
ph	su	7.6	8.1	8.6						
Conductivity	umhos/cm	1020	1124	1300						
Temperature	Celsius	3.1	11.2	22.2						
Lab Parameters	UNITS									
Bicarbonate	mg/L	472	472	472						
Chloride	mg/L	16	16	16						
Conductivity	umhos/cm	1220	1220	1220						
Hardness	mg/L	414	414	414						
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	7.2	7.2	7.2						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable -TDS	mg/L	780	780	780						
ResidueNonFilterable-TSS	mg/L	22	22	22						
SAR		2.55	2.55	2.55						
Sulfate	mg/L	209.0	209.0	209.0						
Aluminum	mg/L	0.24	0.24	0.24						
Arsenic	mg/L	0.002	0.002	0.002						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	80.1	80.1	80.1						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	1.68	1.68	1.68						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	51.9	51.9	51.9						
Manganese (Total)	mg/L	0.184	0.184	0.184						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	118	118	118						
Zinc	mg/L	<MDL	<MDL	<MDL						

The area of concern for monitoring point S-14 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The monitoring point for S-14 is located on a fork of the Stevens Draw road just above Pond 1. Spring seeps from the east bank of drainage along about 100' sections. (Hanna, 1995)

* Site not accessible 1Q

Baseline Information Collection initiated on 9/27/95 and not yet considered complete.
Point S-14 has not been influenced by mining.

S-16
Terror Creek - Spring 16
Elevation - 7750

Initiated	10/11/1995	10/11/1995	10/11/1995
Activated	1/15/2001	1/15/2001	1/15/2001
Date	10/10/2023	9/11/2023	6/13/2023

Summary Information

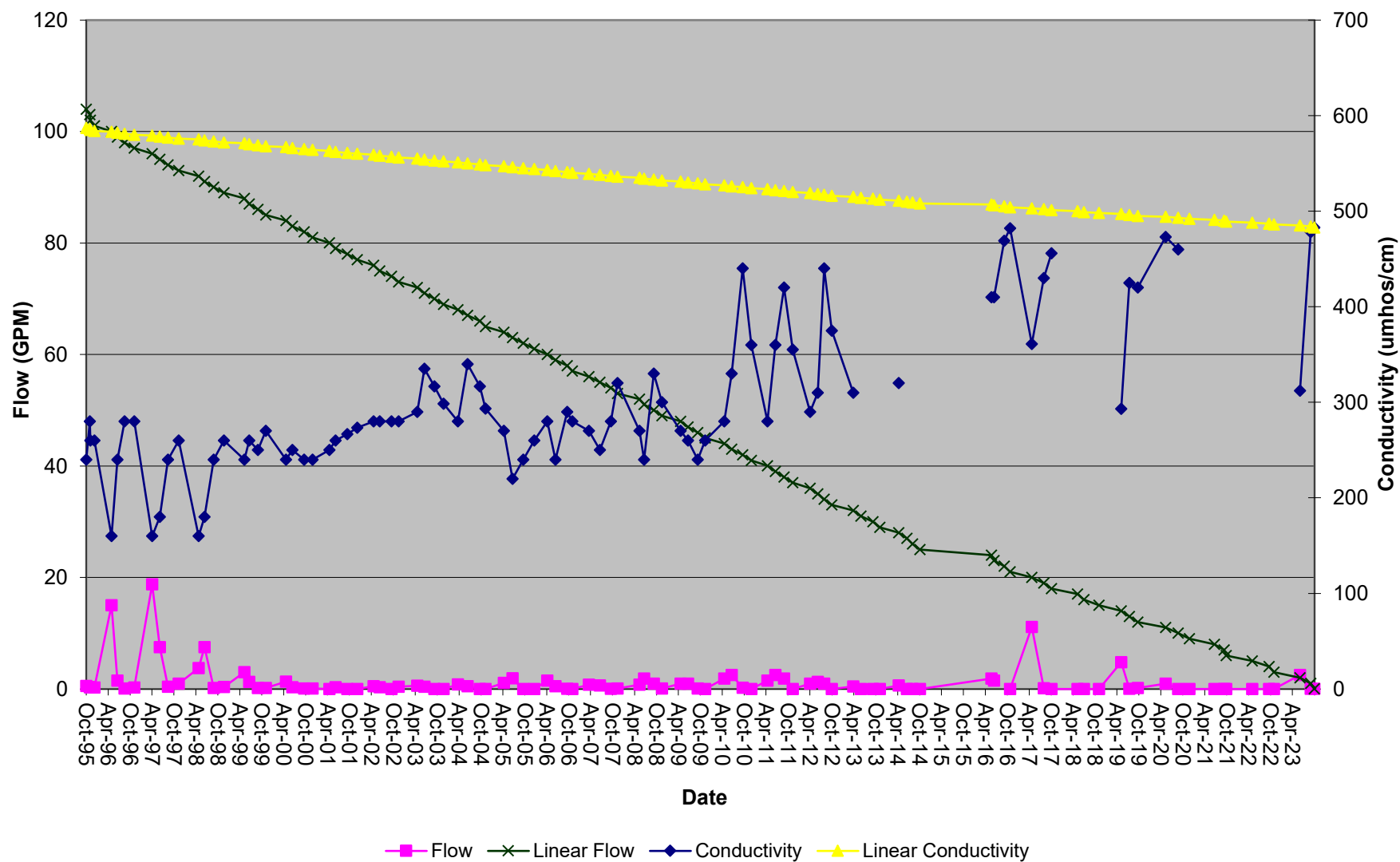
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			*
Flow	GPM	0.06	2.67	18.75	0.00	0.77	11.10	0.01	0.01	2.5
FieldComment										
ph	su	6.9	7.2	7.6	6.7	7.4	7.9	7.13	7.62	7.84
Conductivity	umhos/cm	160	236	280	220	336	483	483	478	312
Temperature	Celsius	4.5	7.0	12.0	5.2	7.2	12.8	10.7	9.5	8
Lab Parameters	UNITS									
Bicarbonate	mg/L	107	129	159	140.0	170.6	193.8			
Chloride	mg/L	<MDL	2	5	1.70	13.57	37.22			
Conductivity	umhos/cm	230	260	296	242	353	449			
Hardness	mg/L	59	93	114	76.80	103.17	117.72			
Nitrate-Nitrite	mg/L	<MDL	0.10	0.24	<MDL	0.31	0.31			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
pH	su	6.4	6.9	7.5	6.69	7.06	7.63			
Phosphate	mg/L	<MDL	0.07	0.33	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	140	164	190	169	223	284			
ResidueNonFilterable-TSS	mg/L	<MDL	2	8	2	13	31			
SAR		0.60	0.70	0.75	1.30	1.35	1.42			
Sulfate	mg/L	<MDL	3.4	12.0	18.30	25.53	38.69			
Aluminum (TREC)	mg/L	0.03	0.07	0.17	0.017	0.098	0.179			
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL	0.005	0.005	0.005			
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	0.007	0.007	0.007			
Calcium (TREC)	mg/L	18.2	28.7	35.1	23.5	31.7	35.9			
Copper (TREC)	mg/L	<MDL	0.002	0.010	<MDL	0.003	0.003			
Iron (TREC)	mg/L	0.03	0.15	0.49	0.02	0.18	0.42			
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	0.02	0.02	0.02			
Magnesium (TREC)	mg/L	3.2	5.3	6.5	<MDL	5.81	6.94			
Manganese (TREC)	mg/L	<MDL	0.005	0.017	<MDL	0.013	0.030			
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0001	0.0001			
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.009	0.009			
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.002	0.002			
Sodium (TREC)	mg/L	10.5	15.4	18.2	23.9	31.0	36.1			
Zinc (TREC)	mg/L	<MDL	0.01	0.02	<MDL	0.007	0.007			

* Site not accessible 1Q

The monitoring point for S-16 is located on an un-mapped road in an un-named gulch which discharges eventually into Terror Creek. The flow from S-16 contributes to Pond 3, which is just below it.

Baseline Information for Point S-16 is derived from events beginning on 10/11/95 through 1/15/02.
Point influenced by mining on 1/15/01.

Plot of Flow and Conductivity



S-17
Freeman Gulch - Spring 17
Elevation - 7110

Initiated	5/9/1996	5/9/1996	5/9/1996
Activated	12/7/2000	12/7/2000	12/7/2000
Date	11/20/2023	9/5/2023	6/17/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation						*
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	2.11	20.00	0.00	0.00	0.00	0	0	0	
FieldComment								Dry	Dry	Damp	
ph	su	8.40	8.61	8.80							
Conductivity	umhos/cm	480.00	532.50	580.00							
Temperature	Celsius	8.40	16.33	25.00							
Lab Parameters	UNITS										
Bicarbonate	mg/L	266.00	280.25	298.00							
Chloride	mg/L	2.00	2.50	3.00							
Conductivity	umhos/cm	511.00	538.25	586.00							
Hardness	mg/L	177.00	200.00	216.00							
Nitrate-Nitrite	mg/L	<MDL	0.02	0.04							
Oil and Grease	mg/L	<MDL	<MDL	<MDL							
pH	su	8.10	8.25	8.40							
Phosphate	mg/L	<MDL	0.01	0.03							
ResidueFilterable-TDS	mg/L	300.00	342.50	380.00							
ResidueNonFilterable-TSS	mg/L	<MDL	72.00	134.00							
SAR		1.15	1.50	2.08							
Sulfate	mg/L	20.00	27.50	30.00							
Aluminum	mg/L	0.10	2.52	5.42							
Arsenic	mg/L	<MDL	0.001	0.005							
Cadmium	mg/L	<MDL	<MDL	<MDL							
Calcium	mg/L	42.00	50.33	55.00							
Copper	mg/L	<MDL	0.003	0.01							
Iron (Total)	mg/L	0.10	2.80	6.08							
Lead	mg/L	<MDL	0.01	0.02							
Magnesium	mg/L	17.50	18.05	19.00							
Manganese (Total)	mg/L	<MDL	0.04	0.09							
Mercury	mg/L	<MDL	<MDL	<MDL							
Molybdenum	mg/L	<MDL	<MDL	<MDL							
Selenium	mg/L	<MDL	0.0003	0.001							
Sodium	mg/L	38.30	47.70	62.70							
Zinc	mg/L	<MDL	0.02	0.04							

Baseline Closed at end of 2000 Monitoring Season

* Site not accessible 1Q

The monitoring point location for S-17 is located on the southern facing slopes of Freeman Gulch and is accessed by foot from trails that originate on the Hubbard Creek Road.

Baseline Information for Point S-17 is derived from events beginning on 5/9/96 through 12/7/00.
Point influenced by mining on 12/7/00.

S-18
Terror Creek - Spring 18
Elevation - 7750

Initiated	6/28/1999	6/28/1999	6/28/1999
Activated			
Date	10/10/2023	9/12/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			*
Flow	GPM	0.00	0.72	5.00				0.63		
FieldComment								No flow	No flow	
ph	su	6.7	8.0	10.2				7.56		
Conductivity	umhos/cm	220	381	670				379		
Temperature	Celsius	2.9	10.5	17.8				12.5		
Lab Parameters	UNITS									
Bicarbonate	mg/L	167.7	248.2	401.0						
Chloride	mg/L	<MDL	<MDL	<MDL						
Conductivity	umhos/cm	331.1	426.0	600.0						
Hardness	mg/L	115.9	165.6	266.0						
Nitrate-Nitrite	mg/L	<MDL	1.09	2.13						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.52	7.72	8.33						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	117.5	229.6	377.0						
ResidueNonFilterable-TSS	mg/L	1	22	64						
SAR		1.35	1.49	1.68						
Sulfate	mg/L	14.41	21.34	25.73						
Aluminum	mg/L	<MDL	0.86	1.59						
Arsenic	mg/L	<MDL	0.008	0.010						
Cadmium	mg/L	<MDL	0.002	0.002						
Calcium	mg/L	30.0	43.7	66.8						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.023	0.750	1.800						
Lead	mg/L	<MDL	0.01	0.01						
Magnesium	mg/L	8.92	13.76	24.20						
Manganese (Total)	mg/L	<MDL	0.02	0.02						
Mercury	mg/L	<MDL	0.00004	0.00004						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	0.070	0.086						
Sodium	mg/L	36.0	44.0	53.8						
Zinc	mg/L	0.01	0.02	0.03						

The area of concern for monitoring point S-18 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The monitoring point for S-18 is located on an unmapped road in an un-named gulch which discharges eventually into Terror Creek. The flow from S-18 contributes to Pond 6, which is just below it.

* Site not accessible 1Q

Baseline Information Collection initiated on 6/28/99 and not yet considered complete.
Point S-18 has not been influenced by mining.

S2-2
Hubbard Creek - Spring 2-2
Elevation - 6740

Initiated	6/9/1998	6/9/1998	6/9/1998
Activated	9/15/2001	9/15/2001	9/15/2001
Date	11/20/2023	9/5/2023	6/5/2023

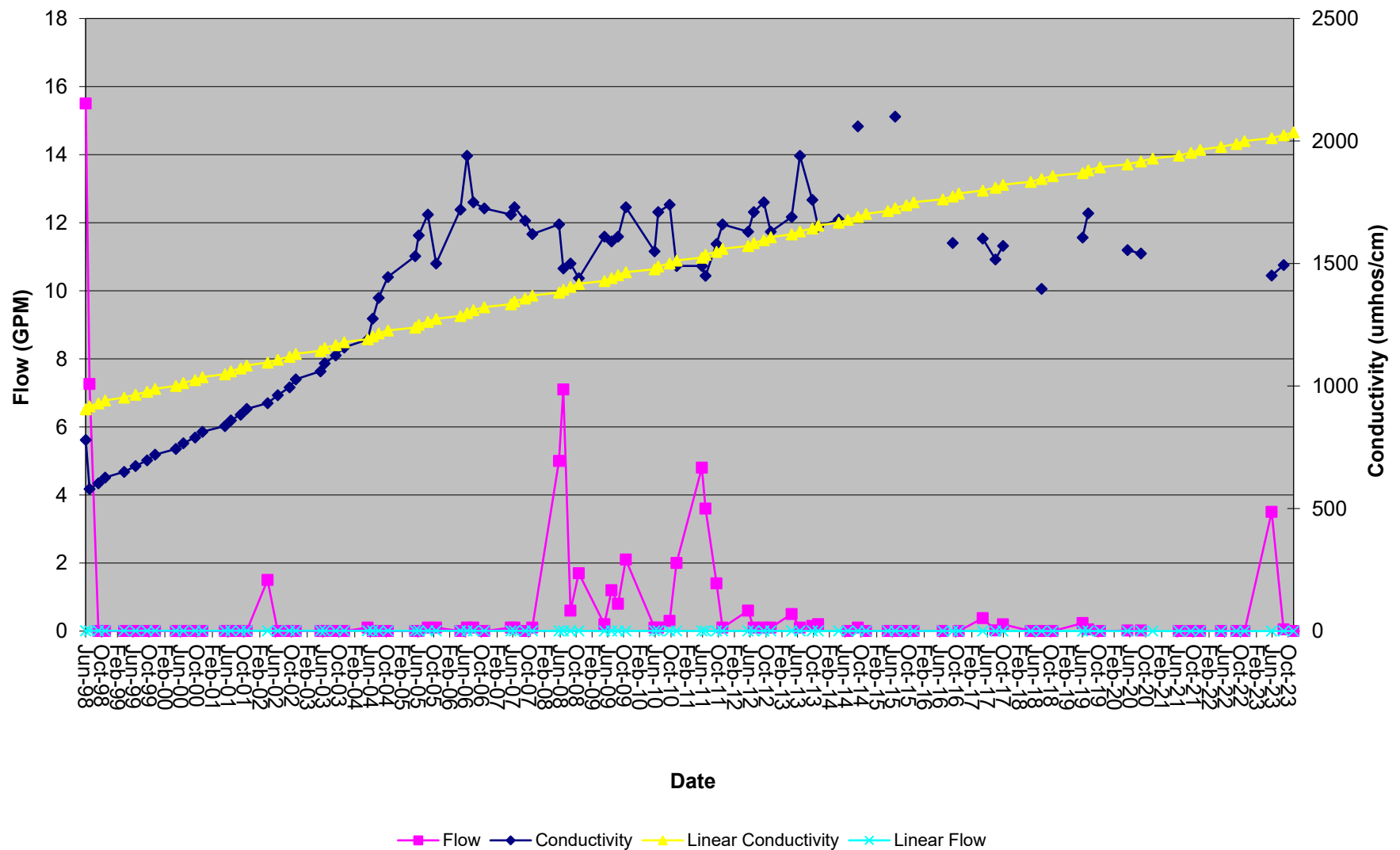
Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			*
Flow	GPM	0.0	1.5	15.5	0.0	0.6	7.1	0	0.048	3.5
FieldComment								No visible flow		
ph	su	6.9	7.5	8.0	7.4	8.6	9.3		8.6	8.82
Conductivity	umhos/cm	580	680	780	930	1616	2100		1494	1451
Temperature	Celsius	11.5	12.3	13.2	0.1	14.5	26.3		13.2	16.7
Lab Parameters	UNITS									
Bicarbonate	mg/L	339	350	361	489.6	536.9	584.2			
Carbonate	mg/L	<MDL	<MDL	<MDL	15.6	19.5	23.4			
Chloride	mg/L	2	3	3	<MDL	2.5	2.5			
Conductivity	umhos/cm	685	702	718	1042.2	1142.9	1243.7			
Hardness	mg/L	208	212	215	132.5	144.6	156.7			
Nitrate-Nitrite	mg/L	0.07	0.09	0.12	<MDL	<MDL	<MDL			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
pH	su	7.7	7.8	7.8	8.5	8.7	8.8			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	390.0	420.0	450.0	941	964	987			
ResidueNonFilterable-TSS	mg/L	38.0	49.0	60.0	130	252	374			
SAR		<MDL	<MDL	<MDL	8.6	10.4	12.3			
Sulfate	mg/L	40.0	40.0	40.0	179.5	199.0	218.6			
Aluminum	mg/L	1.94	2.15	2.36	0.19	0.48	0.77			
Arsenic	mg/L	<MDL	<MDL	<MDL	0.077	0.092	0.107			
Cadmium	mg/L	<MDL	<MDL	<MDL	0.010	0.011	0.012			
Calcium	mg/L	51.5	52.5	53.6	24.70	27.91	31.11			
Copper	mg/L	<MDL	<MDL	<MDL	<MDL	0.013	0.013			
Iron (Total)	mg/L	1.56	1.90	2.25	0.375	1.948	3.520			
Lead	mg/L	<MDL	<MDL	<MDL	<MDL	0.06	0.06			
Magnesium	mg/L	19.4	19.6	19.8	17.19	18.19	19.18			
Manganese (Total)	mg/L	0.017	0.021	0.024	0.012	0.023	0.034			
Mercury	mg/L	<MDL	<MDL	<MDL	0.0001	0.0002	0.0003			
Molybdenum	mg/L	<MDL	<MDL	<MDL	<MDL	0.005	0.005			
Selenium	mg/L	<MDL	<MDL	<MDL	0.005	0.076	0.146			
Sodium	mg/L	69.4	78.6	87.8	247.8	273.4	299.0			
Zinc	mg/L	0.02	0.02	0.02	0.02	0.03	0.03			

* Site not accessible 1Q

Baseline Information for Point S2-2 is derived from events beginning on 6/9/98 through 9/15/2001.
Point influenced by mining on 9/15/01.

Plot of Flow and Conductivity



S2-3
Hubbard Creek - Spring 2-3
Elevation - 6740

Initiated	6/9/1998	6/9/1998	6/9/1998
Activated	9/15/2001	9/15/2001	9/15/2001
Date	11/20/2023	9/5/2023	6/5/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.0	0.2	1.3	0.0	0.01	1.00	0	0	0
FieldComment								Damp	Dry	Dry
ph	su	7.8	7.8	7.8						
Conductivity	umhos/cm	740	740	740						
Temperature	Celsius	12.1	12.1	12.1						
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable -TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

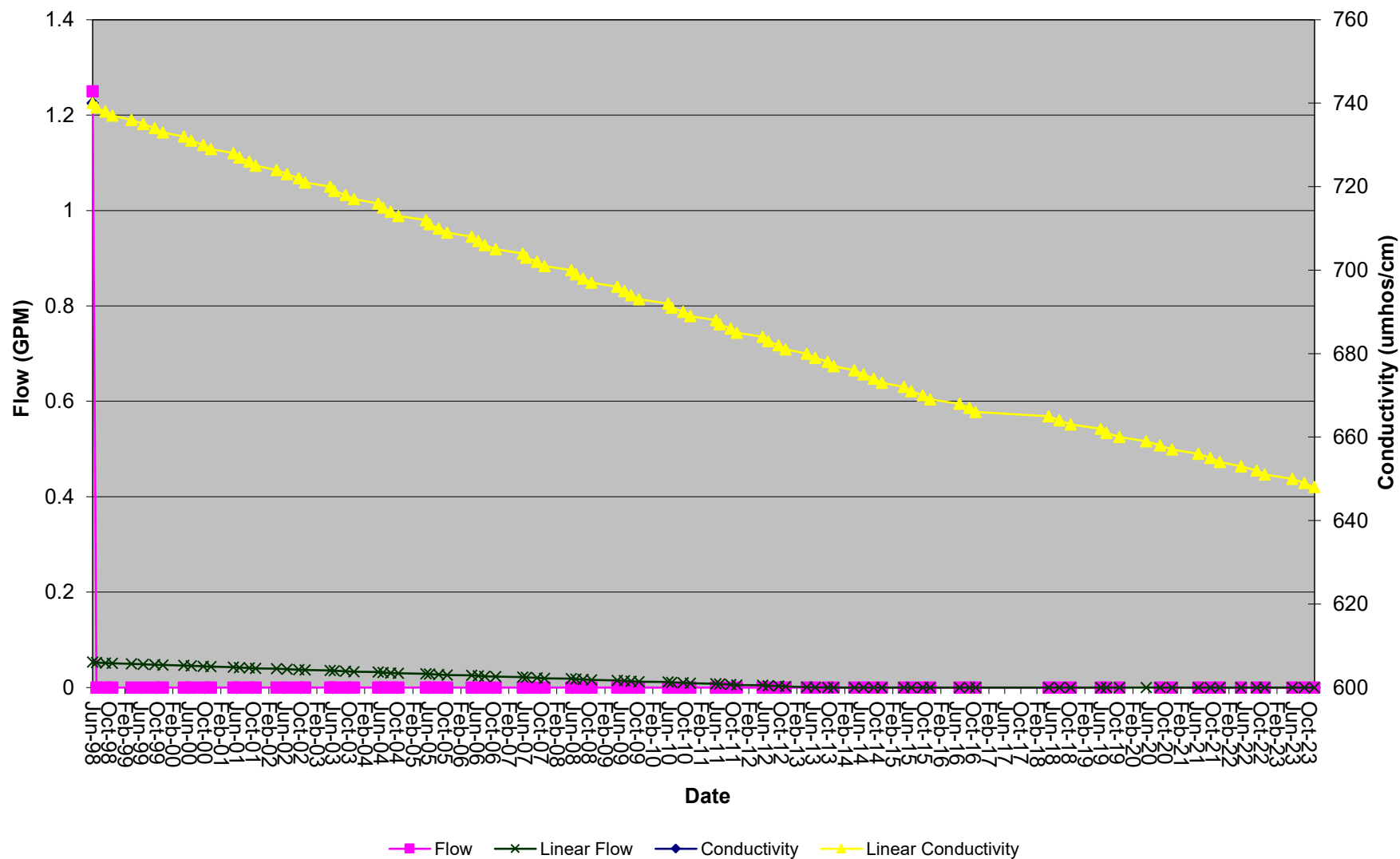
Influenced by the disturbance of Freeman Gulch

* Site not accessible 1Q

The monitoring point for S2-3 is located along the same old coal exploration road used to access S2-2. It is located near the bottom of Freeman Gulch, along the upper edge of the road.

Baseline Information for Point S2-3 is derived from events beginning on 6/9/98 through 9/24/99.
Point influenced by mining on 9/24/99.

Plot of Flow and Conductivity



S2-9
Hubbard Creek - Spring 2-9
Elevation - 6320'

Initiated	4/1/1999	4/1/1999	4/1/1999
Activated	9/24/1999	9/24/1999	9/24/1999
Date	11/20/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.0	1.3	3.8	0.0	0.00	0.00	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	7.5	7.5	7.5						
Conductivity	umhos/cm	1340	1340	1340						
Temperature	Celsius	4.6	4.6	4.6						
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
Residue Filterable-TDS	mg/L									
Residue NonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site not accessible 1Q

The monitoring point for S2-9 is found along the Hubbard Creek road near the mouth of Freeman Gulch. The flow and field parameters are measured at the outlet end of a 24" culvert that directs this runoff from this spring into Hubbard Creek.

Baseline Information for Point S2-9 is derived from events beginning on 4/1/99 through 9/24/99.
Point influenced by mining on 9/24/99.

S2 - 10
Hubbard Creek - Spring 2-10
Elevation - 6320'

Initiated	4/1/1999	4/1/1999	4/1/1999
Activated	9/24/1999	9/24/1999	9/24/1999
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.0	0.9	3.6	0.0	0.1	4.2	0	0	0
FieldComment								Dry	Dry	Dry
ph	su	7.4	7.4	7.4	8.0	8.6	10.2			
Conductivity	umhos/cm	840	840	840	940	1294	1670			
Temperature	Celsius	4.9	4.9	4.9	4.0	17.2	24.6			
Lab Parameters	UNITS									
Bicarbonate	mg/L				570.7	570.7	570.7			
Chloride	mg/L				<MDL	<MDL	<MDL			
Conductivity	umhos/cm				1048.5	1048.5	1048.5			
Hardness	mg/L				375.48	375.48	375.48			
Nitrate-Nitrite	mg/L				<MDL	<MDL	<MDL			
Oil and Grease	mg/L				11.39	11.39	11.39			
pH	su				8.34	8.34	8.34			
Phosphate	mg/L				<MDL	<MDL	<MDL			
Residue Filterable-TDS	mg/L				1052	1052	1052			
Residue NonFilterable-TSS	mg/L				15	15	15			
SAR					0.29	0.29	0.29			
Sulfate	mg/L				205.39	205.39	205.39			
Aluminum	mg/L				0.25	0.25	0.25			
Arsenic	mg/L				0.0066	0.0066	0.0066			
Cadmium	mg/L				<MDL	<MDL	<MDL			
Calcium	mg/L				53.4	53.4	53.4			
Copper	mg/L				0.06	0.06	0.06			
Iron (Total)	mg/L				0.51	0.51	0.51			
Lead	mg/L				0.08	0.08	0.08			
Magnesium	mg/L				58.8	58.8	58.8			
Manganese (Total)	mg/L				0.03	0.03	0.03			
Mercury	mg/L				0.0002	0.0002	0.0002			
Molybdenum	mg/L				<MDL	<MDL	<MDL			
Selenium	mg/L				0.0068	0.0068	0.0068			
Sodium	mg/L				12.94	12.94	12.94			
Zinc	mg/L				0.055	0.055	0.055			

Influenced by the disturbance of Freeman Gulch.

* Site not accessible 1Q

The monitoring point for S2-10 is found along the Hubbard Creek road near the mouth of Freeman Gulch. The flow and field parameters are measured where the flow crosses the Hubbard Creek road, just before it enters Hubbard Creek.

S3-1
Sheep Corral - Spring 3-1
Elevation - 6840

Initiated	5/21/2003	5/21/2003	5/21/2003
Activated	5/21/2003	5/21/2003	5/21/2003
Date	11/20/2023	9/5/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM				0.00	0.66	6.34			
FieldComment								Destryoed	Destroyed	Damp
ph	su				6.8	8.0	8.6			
Conductivity	umhos/cm				968	1237	1520			
Temperature	Celsius				4.1	10.5	19.5			
Lab Parameters	UNITS									
Bicarbonate	mg/L				489.0	489.0	489.0			
Chloride	mg/L				3.0	3.0	3.0			
Conductivity	umhos/cm				845.0	845.0	845.0			
Hardness	mg/L				326.0	326.0	326.0			
Nitrate-Nitrite	mg/L				0.2	0.2	0.2			
Oil and Grease	mg/L				0.0	<MDL	0.0			
pH	su				7.8	7.8	7.8			
Phosphate	mg/L				0.0	<MDL	0.0			
Residue Filterable-TDS	mg/L				557.0	557.0	557.0			
Residue NonFilterable-TSS	mg/L				0.0	<MDL	0.0			
SAR					2.2	2.2	2.2			
Sulfate	mg/L				96.3	96.3	96.3			
Aluminum	mg/L				0.0	<MDL	0.0			
Arsenic	mg/L				0.0	<MDL	0.0			
Cadmium	mg/L				0.0	0.0	0.0			
Calcium	mg/L				83.3	83.3	83.3			
Copper	mg/L				0.0	<MDL	0.0			
Iron (Total)	mg/L				0.0	<MDL	0.0			
Lead	mg/L				0.0	<MDL	0.0			
Magnesium	mg/L				28.6	28.6	28.6			
Manganese (Total)	mg/L				0.0	<MDL	0.0			
Mercury	mg/L				0.0	<MDL	0.0			
Molybdenum	mg/L				0.0	0.0	0.0			
Selenium	mg/L				0.1	0.1	0.1			
Sodium	mg/L				108.0	108.0	108.0			
Zinc	mg/L				0.0	<MDL	0.0			

The area of concern for monitoring point S3-1 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

* Site not accessible 1Q

S5-2
Powerline Seep - Spring 5-2
Elevation - 7200

Initiated	10/29/2012	10/29/2012	10/29/2012
Activated			
Date	11/20/2023	9/7/2023	6/1/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.34	0.34	0.34				Dry	Dry	Damp
Temperature	Celsius	9.2	9.2	9.2						
Conductivity	umhos/cm	850	850	850						
pH	su	7.6	7.6	7.6						
Field Comments										
Lab										

The area of concern for monitoring point S5-2 has not been affected by the mining operation. Therefore, all record monitoring events are considered Baseline.

S6-6
Terror Creek - Spring 6-6
Elevation - 7860

Initiated	7/19/1983	7/19/1983	7/19/1983
Activated	7/22/2012	7/22/2012	7/22/2012
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.00	0.09	3.10				0	0	0
Temperature	Celsius	15.8	18.3	21.1						
Conductivity	umhos/cm	239	298	432						
pH	su	7.8	8.3	8.7						
Field Comments								Dry	Dry	Damp
Lab Parameters	UNITS									
Bicarbonate	mg/L	117.1	117.1	117.1						
Carbonate	mg/L									
Chloride	mg/L	1	1	1						
Conductivity	umhos/cm	235	235	235						
Hardness	mg/L	95	95	95						
pH	su	7.9	7.9	7.9						
Residue Filterable-TDS	mg/L	132	132	132						
ResidueNon Filterable-TSS	mg/L	32	32	32						
SAR		0.71	0.71	0.71						
Sulfate	mg/L	10	10	10						
Calcium (Dissolved)	mg/L	25	25	25						
Magnesium (Total)	mg/L	8	8	8						
Sodium (Dissolved)	mg/L	16	16	16						
Potassium	mg/L									
TDS Ratio (grav./calc.)										

The area of concern for monitoring point S6-6 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

* Site not accessible 1Q

S7-4
Steven's Gulch - Spring 7-4
Elevation - 7780

Initiated	7/19/1983	7/19/1983	7/19/1983
Activated			
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	1.80	11.13						
Temperature	Celsius	8.1	12.1	24.3						
Conductivity	umhos/cm	250	336	530						
pH	su	6.6	7.5	8.2						
Field Comments								Dry	Dry	Damp
Lab Parameters	UNITS									
Bicarbonate	mg/L	40.9	155.3	225.7						
Chloride	mg/L	<MDL	7.58	22.33						
Conductivity	umhos/cm	226	286	353						
Hardness	mg/L	124.53	149.11	184.00						
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	6.6	7.4	8.2						
Phosphate	mg/L	<MDL	<MDL	<MDL						
Residue Filterable-TDS	mg/L	172	218	305						
ResidueNon Filterable-TSS	mg/L	11	35	52						
SAR		0.25	0.77	2.63						
Sulfate	mg/L	<MDL	8.71	14.82						
Aluminum (TREC)	mg/L	<MDL	0.024	0.024						
Arsenic (TREC)	mg/L	<MDL	0.026	0.026						
Cadmium (TREC)	mg/L	<MDL	0.02	0.02						
Calcium (TREC)	mg/L	25.30	25.30	25.30						
Copper (TREC)	mg/L	0.01	0.01	0.01						
Iron (TREC)	mg/L	0.35	0.47	0.58						
Lead (TREC)	mg/L	0.04	0.04	0.04						
Magnesium (TREC)	mg/L	13.0	15.0	18.0						
Manganese (TREC)	mg/L	0.01	0.01	0.01						
Mercury (TREC)	mg/L	<MDL	0.00007	0.00007						
Molybdenum (TREC)	mg/L	<MDL	0.002	0.002						
Selenium (TREC)	mg/L	<MDL	0.018	0.018						
Sodium (TREC)	mg/L	12.99	12.99	12.99						
Zinc (TREC)	mg/L	<MDL	0.01	0.01						

The area of concern for monitoring point S7-4 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

* Site not accessible 1Q

S7-9
Terror Creek - Spring 7-9
Elevation - 7800

Initiated	7/19/1983	7/19/1983	7/19/1983
Activated	7/22/2012	7/22/2012	7/22/2012
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation						*
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.01	0.27	0.00	0.00	0.00				
Temperature	Celsius	8.6	11.3	15.2							
Conductivity	umhos/cm	271	614	791							
pH	su	7.0	7.5	8.0							
Field Comments								Dry	Damp	Damp	
Lab Parameters	UNITS										
Bicarbonate	mg/L	139.1	326.2	427.0							
Carbonate	mg/L										
Chloride	mg/L	1.0	5.7	11.0							
Conductivity	umhos/cm	259.0	522.3	678.0							
Hardness	mg/L	104.0	264.3	347.0							
pH	su	6.7	7.5	8.0							
Residue Filterable-TDS	mg/L	144.0	327.0	425.0							
ResidueNon Filterable-TSS	mg/L	94.0	129.3	170.0							
SAR		0.1	0.6	0.9							
Sulfate	mg/L	4.0	26.0	43.0							
Calcium (Dissolved)	mg/L	30.0	68.0	88.0							
Magnesium (Total)	mg/L	7.0	23.0	31.0							
Sodium (Dissolved)	mg/L	3.0	24.7	38.0							
Potassium	mg/L										
TDS Ratio (grav./calc.)											

The monitoring point for Spring 7-9 is located on an east facing slope that drains down toward Terror Creek.

* Site not accessible 1Q

S7-10
Terror Creek - Spring 7-10
Elevation - 7880

Initiated	8/1/1983	8/1/1983	8/1/1983
Activated	12/31/2013	12/31/2013	12/31/2013
Date	10/9/2023	8/28/2023	6/14/2023

Summary Information										
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.00	1.56	18.75	0.00	0.94	3.75	0.06	0.19	0.28
Temperature	Celsius	1.6	7.81	21.7	6.40	8.03	10.30	8.9	9.9	8
Conductivity	umhos/cm	190	480	660	7.10	577.42	686.00	639	620	512
pH	su	7.0	7.6	8.4	6.58	7.43	7.99	7.26	7.22	7.81
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	142.00	259.51	384.00	241.77	296.89	352.00			
Chloride	mg/L	<MDL	6.8	54.6	4.6	7.8	10.9			
Conductivity	umhos/cm	292	487	722	542	561	580			
Hardness	mg/L	3.00	203.62	258.00	214.04	220.02	226.00			
Nitrate-Nitrite	mg/L	0.3	0.3	0.31	<MDL					
Oil & Grease	mg/L	<MDL	<MDL	<MDL	<MDL					
pH	su	6.76	7.58	8.59	7.08	7.22	7.35			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL					
Residue Filterable-TDS	mg/L	190	319	476	358	394	430			
Residue NonFilterable-TSS	mg/L	<MDL	57	272	14	14	14			
SAR		0.470	0.920	3.959	1.610	2.785	3.959			
Sulfate	mg/L	0.4	22.0	49.8	35.9	42.9	49.8			
Aluminum (TREC)	mg/L	0.023	0.023	0.110	0.110	0.110	0.110			
Arsenic (TREC)	mg/L	0.0100	0.0100	0.0100	0.0010	0.0010	0.0010			
Cadmium (TREC)	mg/L	0.020	0.020	0.020	0.002	0.002	0.002			
Calcium (TREC)	mg/L	36.1	36.1	54.9	43.5	49.2	54.90			
Copper (TREC)	mg/L	0.0010	0.0010	0.0120	0.0120	0.0120	0.0120			
Iron (TREC)	mg/L	0.06	0.22	0.49	0.02	0.17	0.31			
Magnesium (TREC)	mg/L	24.70	24.70	25.60	21.50	23.55	25.60			
Manganese (TREC)	mg/L	<MDL	0.0123	0.0260	0.0260	0.0260	0.03			
Mercury (TREC)	mg/L	0.0000	0.0000	0.0000	0.00002	0.00002	0.00002			
Molybdenum (TREC)	mg/L	0.003	0.003	0.003	0.001	0.001	0.001			
Selenium (TREC)	mg/L	0.023	0.023	0.023	0.003	0.003	0.003			
Sodium (TREC)	mg/L	32.3	32.3	133.1	55.8	94.5	133.1			
Zinc (TREC)	mg/L	0.006	0.006	0.011	0.011	0.011	0.011			

This spring consists of a small 2' x 5' area of exposed rocks. Spring water bubbles up through the rocks. (Hanna, 99)

Activated December 31, 2013

* Site not accessible 1Q

S8-5
Terror Creek - Spring 8-5
Elevation - 7800

Initiated	7/19/1983	7/19/1983	7/19/1983
Activated	7/15/2012	7/15/2012	7/15/2012
Date	10/9/2023	8/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	0.50	8.62	0.00	0.00	3.00			
Temperature	Celsius	7.5	13.80	24.4						
Conductivity	umhos/cm	660	746.00	920						
pH	su	7.3	8.01	8.8						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
		Min	Ave	Max	Min	Ave	Max			
Bicarbonate	mg/L	334	397.13	475						
Carbonate	mg/L									
Chloride	mg/L	6	8.50	11						
Conductivity	umhos/cm	606	686.00	774						
Hardness	mg/L	247	315.13	380						
pH	su	7.0	7.89	8.2						
Residue Filterable-TDS	mg/L	355	404.38	460						
Residue NonFilterable-TSS	mg/L	4	146.00	502						
SAR		0.89	0.99	1.24						
Sulfate	mg/L	30	40.13	56						
Calcium (Dissolved)	mg/L	64.1	75.60	96.7						
Magnesium (Total)	mg/L	21.1	30.71	36.0						
Sodium (Dissolved)	mg/L	31.9	40.14	48						
Potassium	mg/L	1.10	1.10	1.10						
TDS Ratio (grav./calc.)		1.11	1.11	1.11						

The monitoring point for Spring 8.5 is located on an east facing slope that drains down toward Terror Creek.

S21
Terror Creek - Spring 21
Elevation - 7100

Initiated	4/15/1983	4/15/1983	4/15/1983
Activated	12/1/2010	12/1/2010	12/1/2010
Date	11/20/2023	8/31/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			*
Flow	GPM	0	1.03	7.5	0	1.47	15.86			15.86
Temperature	Celsius	2.5	12.1	20.2	4	9.53	16.2			12.9
Conductivity	umhos/cm	360	687	907	667	1166.50	1592			1251
pH	su	7.2	7.9	8.5	7.65	9.02	17.1			8.1
Field Comments					0	#DIV/0!	0	Dry	Damp	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	268	388.56	456	93.08	336.03	495			420
Carbonate	mg/L	<MDL	0.23	3.5						43.1
Chloride	mg/L	2	8.78	14	10.4	15.33	21.8			13.8
Conductivity	umhos/cm	555	679.72	775	434	817.33	1180			1180
Hardness	mg/L	279	350.00	442	323	378.88	466			466
Nitrate-Nitrite	mg/L				0.1	0.10	0.1			<MDL
Oil/Grease	mg/L				<MDL	<MDL	<MDL			<MDL
pH	su	7	7.88	8.4	7.76	8.12	8.5			8.5
ResidueFilterable-TDS	mg/L	330	408.44	535	340	572.33	790			790
ResidueNonFilterable-TSS	mg/L	2	24.92	106	6.6	16.87	27			27
SAR		0.48	0.65	1	2.2	2.590	3.31			2.20
Sulfate	mg/L	30	50.22	91	89.6	138.44	222			222
Calcium (Dissolved)	mg/L	58	84.47	108						
Magnesium (Total)	mg/L	25	33.81	42	35.4	43.90	52.4			
Sodium (Dissolved)	mg/L	22	27.92	44						
Potassium	mg/L	2	2.00	2						
TDS Ratio (grav./calc.)		1	1.00	1						
Aluminum, TREC	mg/L				<MDL	0.55	0.896			0.896
Arsenic, TREC	mg/L				<MDL	0.00	0.001			0.00048
Cadmium, TREC	mg/L				<MDL	0.00	0.002			<MDL
Calcium, TREC	mg/L				52.8	78.67	108			108
Copper, TREC	mg/L				<MDL	0.01	0.01			<MDL
Iron, TREC	mg/L				0.0855	0.36	0.726			0.726
Lead, TREC	mg/L				<MDL	0.03	0.06			0.00072
Manganese, TREC	mg/L				0.0108	15.92	47.7			47.7
Mercury, TREC	mg/L				<MDL	3.000E-05	3.000E-05			<MDL
Molybdenum, TREC	mg/L				<MDL	0.00	0.001			<MDL
Selenium, TREC	mg/L				<MDL	0.01	0.007			<MDL
Sodium, TREC	mg/L				96.8	110.93	127			109
Zinc, TREC	mg/L				<MDL	0.01	0.01			<MDL

* Site not accessible 1Q

Baseline Information for Point S21 is derived from events beginning on 4/15/83 through 12/1/10.
Point influenced by mining on 12/1/10.

S33-4
Sheep Corral - Spring 33-4
Elevation - 7790

Initiated	10/30/1997	10/30/1997	10/30/1997
Activated	12/1/2001	12/1/2001	12/1/2001
Date	11/20/2023	9/5/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0	0.0	0.0	0.0	0.0	0.0			
FieldComment								Dry	Dry	Dry
ph	su									
Conductivity	umhos/cm									
Temperature	Celsius									
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

This spring was found during the fall of 1997 and was not locatable after 1998.

* Site not accessible 1Q

The monitoring point for S33-4 (Spring 33-4) is located above P33-3 in a roadless fork. Evidence of a dry spring was found in October and has not been relocated.

Baseline Information for Point S33-4 is derived from events beginning on 10/30/97 through 12/1/01.
Point influenced by mining on 12/1/01.

S34-7
Sheep Corral - Spring 34-7
Elevation - 7390

Initiated	10/27/1997	10/27/1997	10/27/1997
Activated	6/1/2002	6/1/2002	6/1/2002
Date	11/20/2023	9/7/2023	6/13/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.00	0.30	4.41	0.0	0.03	1.00			
FieldComment								Dry	Dry	Dry
ph	su	6.8	7.5	8.0	7.2	7.9	8.4			
Conductivity	umhos/cm	160	258	300	330	625	1170			
Temperature	Celsius	5.9	11.2	19.8	3.7	13.6	24.5			
Lab Parameters	UNITS									
Bicarbonate	mg/L	200	200	200						
Chloride	mg/L	4	4	4						
Conductivity	umhos/cm	420	420	420						
Hardness	mg/L	129	129	129						
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL						
Oil and Grease	mg/L	4	4	4						
pH	su	8.0	8.0	8.0						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	230	230	230						
ResidueNonFilterable-TSS	mg/L	138	138	138						
SAR		<MDL	<MDL	<MDL						
Sulfate	mg/L	30.0	30.0	30.0						
Aluminum	mg/L	3.51	3.51	3.51						
Arsenic	mg/L	0.001	0.001	0.001						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	37.0	37.0	37.0						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	3.58	3.58	3.58						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	8.9	8.9	8.9						
Manganese (Total)	mg/L	0.113	0.113	0.113						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	41.0	41.0	41.0						
Zinc	mg/L	0.03	0.03	0.03						

* Site note accessible 1Q

The monitoring point for S34-7 is located just to the south of an old coal exploration road which winds down Sheep Corral Gulch.

Baseline Information for Point S34-7 is derived from events beginning on 10/27/97 through 6/1/02.
Point influenced by mining on 6/1/02.

S34-10
Dove Gulch - Spring 34-10
Elevation - 6640

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated			
Date	10/23/2023	9/5/2023	6/29/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0	0.6	11.0	0.0	0.4	16.4			
FieldComment								Dry	Dry	Damp
ph	su	7.3	7.4	7.4	8.2	8.4	8.7			
Conductivity	umhos/cm	320	435	550	1160	1340	1689			
Temperature	Celsius	8.2	9.1	10.6	6.7	11.6	19.6			
Lab Parameters	UNITS									
Bicarbonate	mg/L	325	335	344	284.2	284.2	284.2			
Carbonate	mg/L	<MDL	<MDL	<MDL	3.6	3.6	3.6			
Chloride	mg/L	5	5	5	0.86	0.86	0.86			
Conductivity	umhos/cm	622	681	740	1032.1	1032.1	1032.1			
Hardness	mg/L	170	186	202	236.3	236.3	236.3			
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	2.43	2.43	2.43			
pH	su	7.8	7.8	7.8	8.43	8.43	8.43			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	370	400	430	751	751	751			
ResidueNonFilterable-TSS	mg/L	<MDL	31	62	29	29	29			
SAR		<MDL	<MDL	<MDL	3.39	3.39	3.39			
Sulfate	mg/L	40	50	60	194.69	194.69	194.69			
Aluminum	mg/L	0.07	1.96	3.86	0.25	0.25	0.25			
Arsenic	mg/L	<MDL	0.001	0.001	0.064	0.064	0.064			
Cadmium	mg/L	<MDL	<MDL	<MDL	0.015	0.015	0.015			
Calcium	mg/L	40.1	43.4	46.8	55.4	55.4	55.4			
Copper	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Iron (Total)	mg/L	0.05	1.65	3.26	0.102	0.102	0.102			
Lead	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Magnesium	mg/L	16.9	18.8	20.7	23.8	23.8	23.8			
Manganese (Total)	mg/L	<MDL	0.027	0.055	<MDL	<MDL	<MDL			
Mercury	mg/L	<MDL	<MDL	<MDL	0.0001	0.0001	0.0001			
Molybdenum	mg/L	<MDL	<MDL	<MDL	0.01	0.01	0.01			
Selenium	mg/L	0.001	0.001	0.001	0.0036	0.0036	0.0036			
Sodium	mg/L	70.2	77.4	84.6	119.8	119.8	119.8			
Zinc	mg/L	<MDL	0.01	0.03	0.011	0.011	0.011			

* Site note accessible 1Q

The monitoring point for S34-10 is located high on the northern facing slopes that forms the Dove Gulch Canyon. It is accessed on foot remnants of an old coal exploration road in the mouth of Dove Gulch. It is one of three springs found in this location, originating in the s. outcrop and discharges via sheet flow into Dove Gulch.

Baseline Information for Point S34-10 is derived from events beginning on 10/31/97 through 12/1/03.
Point influenced by mining on 12/1/03.

S34-19
Hubbard Creek - Spring 34-19
Elevation - 6460

Initiated	6/9/1998	6/9/1998	6/9/1998
Activated			
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation						*
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.0	0.2	7.5							
FieldComment								Damp	Dry	Dry	
ph	su	7.1	7.9	8.6							
Conductivity	umhos/cm	149	1008	2400							
Temperature	Celsius	3.3	13.5	22.4							
Lab Parameters	UNITS										
Bicarbonate	mg/L	434	434	434							
Chloride	mg/L	9	9	9							
Conductivity	umhos/cm	911	911	911							
Hardness	mg/L	197	197	197							
Nitrate-Nitrite	mg/L	0.1	0.1	0.1							
Oil and Grease	mg/L	<MDL	<MDL	<MDL							
pH	su	7.6	7.6	7.6							
Phosphate	mg/L	<MDL	<MDL	<MDL							
ResidueFilterable-TDS	mg/L	550	550	550							
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL							
SAR		<MDL	<MDL	<MDL							
Sulfate	mg/L	290.0	290.0	290.0							
Aluminum	mg/L	0.2	0.2	0.2							
Arsenic	mg/L	<MDL	<MDL	<MDL							
Cadmium	mg/L	<MDL	<MDL	<MDL							
Calcium	mg/L	44.7	44.7	44.7							
Copper	mg/L	<MDL	<MDL	<MDL							
Iron (Total)	mg/L	0.2	0.2	0.2							
Lead	mg/L	<MDL	<MDL	<MDL							
Magnesium	mg/L	20.8	20.8	20.8							
Manganese (Total)	mg/L	0.006	0.006	0.006							
Mercury	mg/L	<MDL	<MDL	<MDL							
Molybdenum	mg/L	<MDL	<MDL	<MDL							
Selenium	mg/L	0.002	0.002	0.002							
Sodium	mg/L	132.0	132.0	132.0							
Zinc	mg/L	<MDL	<MDL	<MDL							

The area of concern for monitoring point S34-19 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The monitoring point for S34-19 is found along the Hubbard Creek Trail. It is a diverse flow along the upper edge of the trail.

* Site note accessible 1Q

Baseline Information Collection initiated on 6/9/98 and not yet considered complete.
Point S34-19 has not been influenced by mining.

S34-20
Hubbard Creek - Spring 34-20
Elevation - 6440

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated			
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	*		
Flow	GPM	0.0	0.0	0.6						
FieldComment								Dry	Dry	Damp
ph	su	7.6	7.8	8.2						
Conductivity	umhos/cm	860	1140	1320						
Temperature	Celsius	12.5	18.4	24.1						
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

The area of concern for monitoring point S34-20 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The monitoring point for S34-20 is found along the Hubbard Creek Trail. It is a diverse flow along the upper edge of the trail.

* Site note accessible 1Q

Baseline Information Collection initiated on 6/2/98 and not yet considered complete.
Point S34-20 has not been influenced by mining.

S34-21
Hubbard Creek - Spring 34-21
Elevation - 6430

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated			
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0	0.5	10.7	0.0	0.1	4.0			
FieldComment								Dry	Damp	Dry
ph	su	7.6	7.6	7.6	7.4	7.8	8.4			
Conductivity	umhos/cm	620	620	620	700	1531	1980			
Temperature	Celsius	18.7	18.7	18.7	15.3	19.7	26.4			
Lab Parameters	UNITS									
Bicarbonate	mg/L	454	454	454						
Chloride	mg/L	6	6	6						
Conductivity	umhos/cm	831	831	831						
Hardness	mg/L	226	226	226						
Nitrate-Nitrite	mg/L	0.2	0.2	0.2						
Oil and Grease	mg/L	3.0	3.0	3.0						
pH	su	8.1	8.1	8.1						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	490	490	490						
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL						
SAR		<MDL	<MDL	<MDL						
Sulfate	mg/L	70	70	70						
Aluminum	mg/L	0.18	0.18	0.18						
Arsenic	mg/L	<MDL	<MDL	<MDL						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	52.9	52.9	52.9						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.14	0.14	0.14						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	22.9	22.9	22.9						
Manganese (Total)	mg/L	<MDL	<MDL	<MDL						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	<MDL	<MDL	<MDL						
Sodium	mg/L	105.0	105.0	105.0						
Zinc	mg/L	<MDL	<MDL	<MDL						

* Site note accessible 1Q

The monitoring point for S34-21 is found along the Hubbard Creek Trail. It is a diverse flow along the upper edge of the trail.

Baseline Information for Point S34-21 is derived from events beginning on 6/9/98 through 11/10/03.
Point influenced by mining on 11/10/03.

S34-22
Hubbard Creek - Spring 34-22
Elevation - 6700

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated			
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0	1.5	35.0	0.0	0.3	13.6			
FieldComment								Dry	Damp	Dry
ph	su	7.2	7.3	7.4	7.8	8.0	8.4			
Conductivity	umhos/cm	230	230	230	1260	1499	1808			
Temperature	Celsius	17.2	17.2	17.2	8.5	9.9	12.1			
Lab Parameters	UNITS									
Bicarbonate	mg/L	302	302	302	285.4	285.4	285.4			
Carbonate	mg/L	12	15	18	18.1	18.1	18.1			
Chloride	mg/L	4	4	4	<MDL	<MDL	<MDL			
Conductivity	umhos/cm	602	602	602	1011.5	1011.5	1011.5			
Hardness	mg/L	171	171	171	238.8	238.8	238.8			
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Oil and Grease	mg/L	<MDL	<MDL	<MDL	2.41	2.41	2.41			
pH	su	8.2	8.2	8.2	8.8	8.8	8.8			
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L	380	380	380	854	854	854			
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL	40	40	40			
SAR		<MDL	<MDL	<MDL	4.19	4.19	4.19			
Sulfate	mg/L	50	50	50	223.91	223.91	223.91			
Aluminum	mg/L	0.31	0.31	0.31	0.23	0.23	0.23			
Arsenic	mg/L	<MDL	<MDL	<MDL	0.064	0.064	0.064			
Cadmium	mg/L	<MDL	<MDL	<MDL	0.026	0.026	0.026			
Calcium	mg/L	38.3	38.3	38.3	53.9	53.9	53.9			
Copper	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Iron (Total)	mg/L	0.27	0.27	0.27	0.187	0.187	0.187			
Lead	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			
Magnesium	mg/L	18.3	18.3	18.3	25.3	25.3	25.3			
Manganese (Total)	mg/L	<MDL	<MDL	<MDL	0.1	0.1	0.1			
Mercury	mg/L	<MDL	<MDL	<MDL	0.0001	0.0001	0.0001			
Molybdenum	mg/L	<MDL	<MDL	<MDL	0.01	0.01	0.01			
Selenium	mg/L	<MDL	<MDL	<MDL	0.0048	0.0048	0.0048			
Sodium	mg/L	74.4	74.4	74.4	149	149	149			
Zinc	mg/L	<MDL	<MDL	<MDL	0.006	0.006	0.006			

* Site note accessible 1Q

The monitoring point for S34-22 is located high on the northern facing slopes that forms the Dove Gulch Canyon. It is accessed on foot from the remnants of an old coal exploration road in the mouth of Dove Gulch. It is one of three springs found in this location, originating in the sandstone outcrop and discharges via sheet flow into Dove Gulch.

Baseline Information for Point S34-22 is derived from events beginning on 6/9/98 through 11/20/03.
Point influenced by mining on 11/20/03.

S34-23
Hubbard Creek - Spring 34-23
Elevation - 6650

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated			
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0	3.5	75.0	0.0	0.1	4.6			
FieldComment								Dry	Damp	Damp
ph	su	7.6	7.8	8.0	8.5	8.5	8.5			
Conductivity	umhos/cm	320	390	460	900	900	900			
Temperature	Celsius	12.1	14.0	15.9	9.0	9.0	9.0			
Lab Parameters	UNITS									
Bicarbonate	mg/L	249	268	287						
Chloride	mg/L	2	3	4						
Conductivity	umhos/cm	537	545	552						
Hardness	mg/L	169	171	173						
Nitrate-Nitrite	mg/L	<MDL	0.01	0.02						
Oil and Grease	mg/L	<MDL	<MDL	<MDL						
pH	su	8.1	8.3	8.4						
Phosphate	mg/L	<MDL	<MDL	<MDL						
ResidueFilterable-TDS	mg/L	330	335	340						
ResidueNonFilterable-TSS	mg/L	<MDL	11	22						
SAR		<MDL	<MDL	<MDL						
Sulfate	mg/L	30	40	50						
Aluminum	mg/L	0.32	0.95	1.57						
Arsenic	mg/L	<MDL	<MDL	<MDL						
Cadmium	mg/L	<MDL	<MDL	<MDL						
Calcium	mg/L	40.5	41.8	43.1						
Copper	mg/L	<MDL	<MDL	<MDL						
Iron (Total)	mg/L	0.25	0.77	1.29						
Lead	mg/L	<MDL	<MDL	<MDL						
Magnesium	mg/L	15.9	16.1	16.4						
Manganese (Total)	mg/L	<MDL	0.013	0.026						
Mercury	mg/L	<MDL	<MDL	<MDL						
Molybdenum	mg/L	<MDL	<MDL	<MDL						
Selenium	mg/L	0.001	0.001	0.001						
Sodium	mg/L	59.8	61.1	62.4						
Zinc	mg/L	<MDL	0.005	0.010						

* Site note accessible 1Q

The monitoring point for S34-23 is located high on the northern facing slopes that forms the Dove Gulch Canyon. It is accessed on foot from the remnants of an old coal exploration road in the mouth of Dove Gulch. It is one of three springs found in this location, originating in the sandstone outcrops and discharges via sheet flow into Dove Gulch.

Baseline Information for Point S34-23 is derived from events beginning on 6/9/98 through 12/8/03.
Point influenced by mining on 12/8/03.

S34-24
Hubbard Creek - Spring 34-24
Elevation - 6390

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated	4/1/2002	4/1/2002	4/1/2002
Date	10/23/2023	9/5/2023	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.00	0.06	0.91	0.0	0.00	0.10			
FieldComment								Dry	Damp	Damp
ph	su	7.8	7.8	7.8	7.8	8.0	8.2			
Conductivity	umhos/cm	1010	1010	1010	1210	1740	2400			
Temperature	Celsius	19.0	19.0	19.0	9.0	20.3	24.8			
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
Nitrate-Nitrite	mg/L									
Oil and Grease	mg/L									
pH	su									
Phosphate	mg/L									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Aluminum	mg/L									
Arsenic	mg/L									
Cadmium	mg/L									
Calcium	mg/L									
Copper	mg/L									
Iron (Total)	mg/L									
Lead	mg/L									
Magnesium	mg/L									
Manganese (Total)	mg/L									
Mercury	mg/L									
Molybdenum	mg/L									
Selenium	mg/L									
Sodium	mg/L									
Zinc	mg/L									

* Site note accessible 1Q

The monitoring point for S34-24 is found along the Hubbard Creek Trail. It is a diverse flow along the upper edge of the trail.

Baseline Information for Point S34-24 is derived from events beginning on 6/2/98 through 4/1/02.
Point influenced by mining on 4/1/02.

Initiated	6/2/1998	6/2/1998	6/2/1998
Activated	10/30/2008	10/30/2008	10/30/2008
Date	10/23/2023	9/5/2023	6/29/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			*		
		Min	Ave	Max	Min	Ave	Max			
Flow	GPM				0.0	0.4	5.0			
FieldComment								Dry	Damp	Damp
ph	su				8.1	8.4	8.8			
Conductivity	umhos/cm				800	916	1088			
Temperature	Celsius				5.0	10.5	17.9			
Lab Parameters	UNITS									
Bicarbonate	mg/L				335	335	335			
Carbonate	mg/L				37	37	37			
Chloride	mg/L				3	3	3			
Conductivity	umhos/cm				759	759	759			
Hardness	mg/L				120	120	120			
Nitrate-Nitrite	mg/L				0.03	0.03	0.03			
Oil and Grease	mg/L				<MDL	<MDL	<MDL			
pH	su				8.8	8.8	8.8			
Phosphate	mg/L				<MDL	<MDL	<MDL			
ResidueFilterable-TDS	mg/L				490	490	490			
ResidueNonFilterable-TSS	mg/L				19	19	19			
SAR					5.99	5.99	5.99			
Sulfate	mg/L				67	67	67			
Aluminum	mg/L				0.61	0.61	0.61			
Arsenic	mg/L				<MDL	<MDL	<MDL			
Cadmium	mg/L				<MDL	<MDL	<MDL			
Calcium	mg/L				27.6	27.6	27.6			
Copper	mg/L				<MDL	<MDL	<MDL			
Iron (Total)	mg/L				0.51	0.51	0.51			
Lead	mg/L				0.0004	0.0004	0.0004			
Magnesium	mg/L				12.4	12.4	12.4			
Manganese (Total)	mg/L				<MDL	<MDL	<MDL			
Mercury	mg/L				<MDL	<MDL	<MDL			
Molybdenum	mg/L				<MDL	<MDL	<MDL			
Selenium	mg/L				0.0016	0.0016	0.0016			
Sodium	mg/L				149	149	149			
Zinc	mg/L				<MDL	<MDL	<MDL			

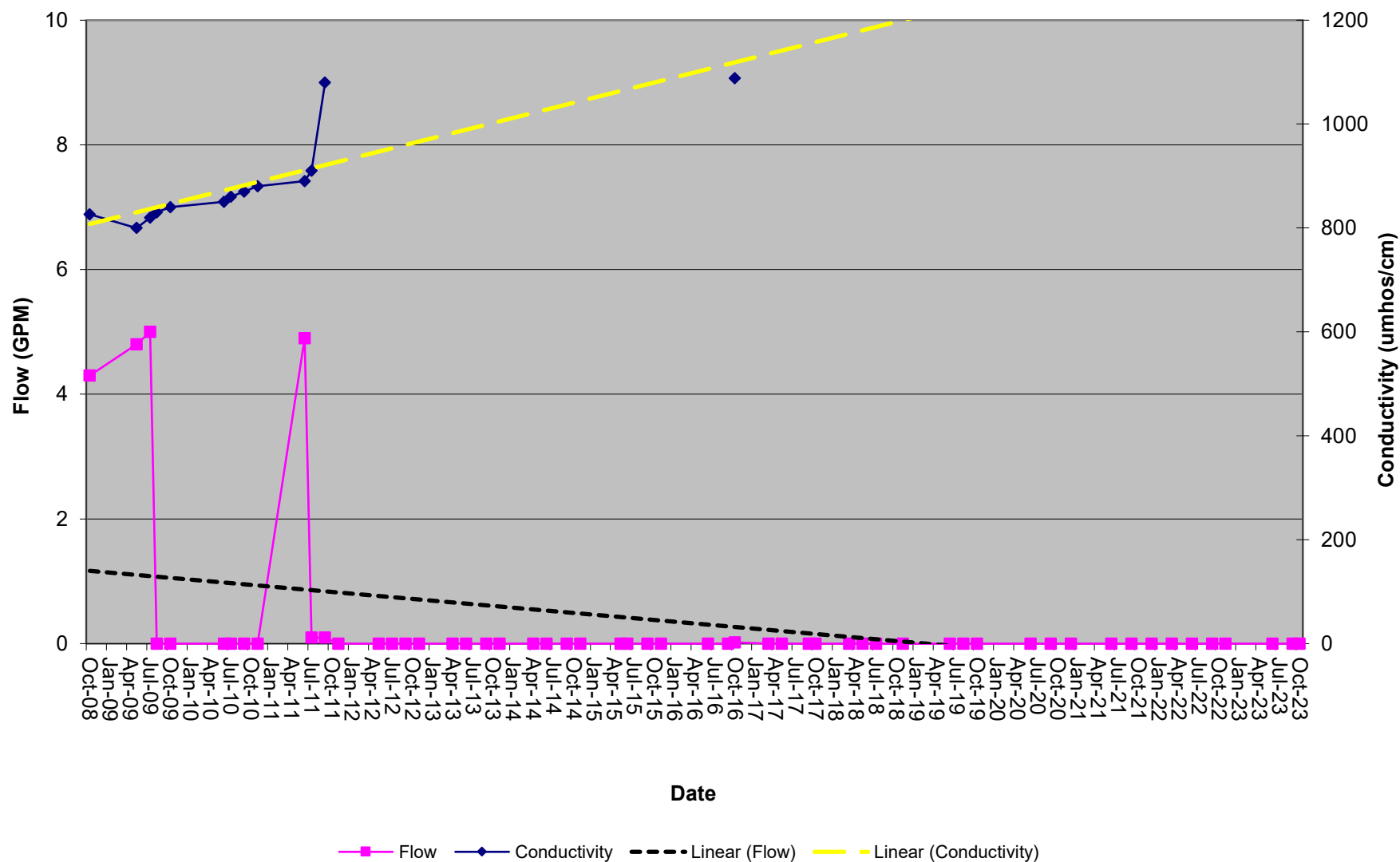
The area of concern for monitoring point S34-25 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered operational.

The monitoring point for S34-25 is found on drill site GVB-8A-A, 8A & 9D in the Dove Gulch drainage.

* Site note accessible 1Q

There is no baseline collection possible for points initiated after the influence of mining.

Plot of Flow and Conductivity



D2-1
Sheep Corral - Drainage System
Elevation - 6360

Initiated	11/6/1998	11/6/1998	11/6/1998	11/6/1998
Activated	11/1/2003	11/1/2003	11/1/2003	11/1/2003
Date	10/23/2023	9/5/2023	6/28/2023	

		Summary Information									
Field Parameters	UNITS	Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.32	4.55	0.00	0.35	13.60	0	0	0	0
FieldComment								Dry	Dry	Dry	Dry
ph	su	7.1	7.8	8.4	7.4	8.1	8.6				
Conductivity	umhos/cm	940	1210	1640	1140	1499	2000				
Temperature	Celsius	4.1	11.1	19.4	5.0	16.8	25.4				
Lab Parameters		UNITS									
Bicarbonate	mg/L	540	540	540	398.95	593.87	772.59				
Chloride	mg/L	11	11	11	<MDL	15.41	20.81				
Conductivity	umhos/cm	1230	1230	1230	1173.0	1508.7	1847.3				
Hardness	mg/L	291	291	291	228.45	325.43	372.55				
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL	1.866	2.730				
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	2.060	4.050				
pH	su	8.2	8.2	8.2	7.8	8.4	8.9				
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL				
ResidueFilterable-TDS	mg/L	790	790	790	824	1060	1321				
ResidueNonFilterable-TSS	mg/L	<MDL	<MDL	<MDL	1.0	64.9	296.0				
SAR		5.3	5.3	5.3	1.34	5.08	11.30				
Sulfate	mg/L	190	190	190	230.00	275.24	380.32				
Aluminum	mg/L	0.39	0.39	0.39	0.057	0.377	1.23				
Arsenic	mg/L	<MDL	<MDL	<MDL	0.0017	0.054	0.142				
Cadmium	mg/L	<MDL	<MDL	<MDL	<MDL	0.006	0.015				
Calcium	mg/L	49.8	49.8	49.8	36.9	55.3	66.6				
Copper	mg/L	<MDL	<MDL	<MDL	<MDL	0.284	0.552				
Iron (Total)	mg/L	0.3	0.3	0.3	0.10	0.49	1.22				
Lead	mg/L	<MDL	<MDL	<MDL	<MDL	0.03	0.05				
Magnesium	mg/L	40.6	40.6	40.6	33.1	45.5	57.3				
Manganese (Total)	mg/L	0.01	0.01	0.01	<MDL	0.053	0.084				
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL	0.0001	0.0002				
Molybdenum	mg/L	<MDL	<MDL	<MDL	<MDL	0.003	0.003				
Selenium	mg/L	<MDL	<MDL	<MDL	0.0002	0.0492	0.1680				
Sodium	mg/L	205	205	205	54.8	200.8	393.8				
Zinc	mg/L	<MDL	<MDL	<MDL	<MDL	0.032	0.090				

* Not accessible

The D2-1 Monitoring point is at the lower extreme of Sheep Corral Gulch. It is located just below the Hubbard Creek Road, just north of the Blue Ribbon Mine.

Baseline Information for Point D2-1 is derived from events beginning on 10/31/97 through 4/1/02.
Point influenced by mining on 4/1/02.

D21-1
Terror Creek - Confluence w/NFG
Elevation - 5760

Initiated	3/23/2010	3/23/2010	3/23/2010	3/23/2010
Activated				
Date	11/13/2023	9/28/2023	6/1/2023	3/27/2023

		Summary Information							
Field Parameters	UNITS	Baseline			Operation				
		Min	Ave	Max	Min	Ave	Max		
Flow	CFS	0.02	5.63	46.00					
FieldComment									
ph	su	7.1	8.4	9.0				8.19	7.58
Conductivity	umhos/cm	76	315	820				292	323
Temperature	Celsius	0.4	9.9	20.6				3.8	3.8
Lab Parameters	UNITS								
Bicarbonate	mg/L	35.70	123.35	292.00				122	35.7
Chloride	mg/L	0.6	41.5	188.5				<MDL	5.4
Conductivity	umhos/cm	65	291	744				268	70
Hardness	mg/L	31.50	132.08	297.20				119	33
Nitrate-Nitrite	mg/L	<MDL	0.181	0.570				<MDL	0.036
Oil and Grease	mg/L	<MDL	<MDL	<MDL				<MDL	<MDL
pH	su	6.77	7.91	8.53				8.1	7.9
Phosphate	mg/L	<MDL	0.060	0.280				0.03	0.0744
ResidueFilterable-TDS	mg/L	1	217	494				162	84
ResidueNonFilterable-TSS	mg/L	<MDL	34	302				15	27
SAR		0.24	0.67	1.70				0.52	0.24
Sulfate	mg/L	1.23	25.94	72.03				19.5	<MDL
Aluminum (TREC)	mg/L	0.008	0.688	2.250				0.35	2.25
Arsenic (TREC)	mg/L	0.000	0.011	0.060				0.00047	0.00041
Cadmium (TREC)	mg/L	0.002	0.006	0.020				<MDL	<MDL
Calcium (TREC)	mg/L	6.05	27.58	67.30				24.7	8.02
Copper (TREC)	mg/L	0.002	0.007	0.017				<MDL	<MDL
Iron (TREC)	mg/L	0.06	0.96	11.70				0.653	1.68
Lead (TREC)	mg/L	0.00	0.01	0.05				0.00024	0.00053
Magnesium (TREC)	mg/L	2.96	14.73	44.40				13.9	3.06
Manganese (TREC)	mg/L	<MDL	0.871	23.700				0.083	0.021
Mercury (TREC)	mg/L	0.00001	0.00006	0.00012				<MDL	<MDL
Molybdenum (TREC)	mg/L	0.000	0.003	0.008				<MDL	<MDL
Selenium (TREC)	mg/L	<MDL	0.00681	0.03600				0.0001	0.00016
Sodium (TREC)	mg/L	3.15	18.04	67.50				12.9	3.15
Zinc (TREC)	mg/L	0.003	0.025	0.110				<MDL	<MDL

The area of concern for monitoring point D21-1 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The D21-1 Monitoring point is at downstream Terror Creek-Confluence w/NFG.

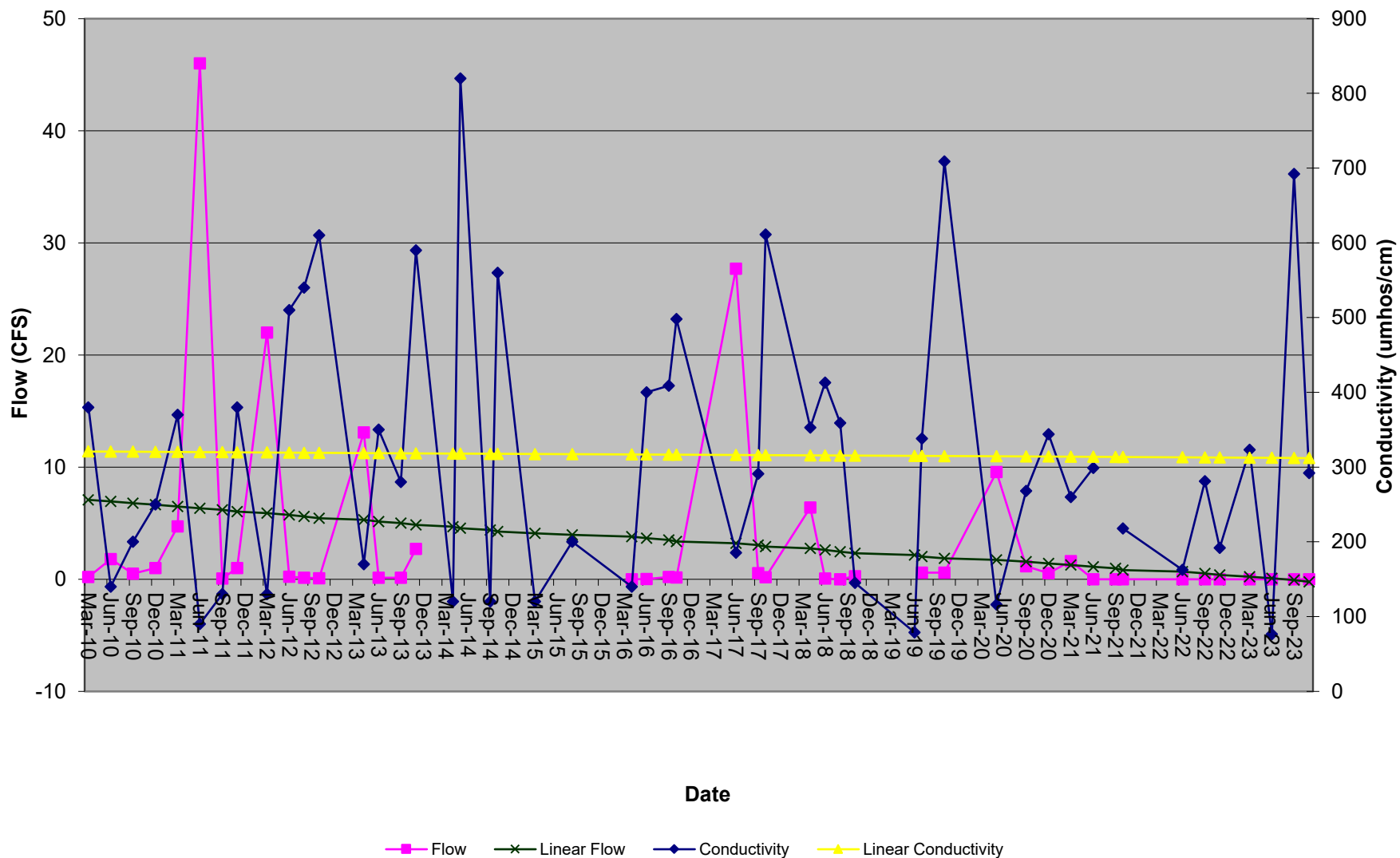
* Stream flow too low for measurement

** Stream flow too high for measurement

*** Site not accessible

Baseline Information Collection initiated 3/23/10 and not yet considered complete.
Point D21-1 has not been influence by mining.

Plot of Flow and Conductivity



D32-4
Terror Creek - Drainage System
Elevation - 7480

Initiated	3/23/2010	3/23/2010	3/23/2010	3/23/2010
Activated				
Date	11/13/2023	9/7/2023	6/1/2023	

		Summary Information										
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Flow	CFS	0.04	6.26	75.80								
FieldComment												*
ph	su	6.9	8.1	8.8				8.6	8.4	8.1		
Conductivity	umhos/cm	20	121	288				212	109.9	91.9		
Temperature	Celsius	0.0	9.6	19.0				2.8	15.9	6.1		
Lab Parameters	UNITS											
Bicarbonate	mg/L	1.7	62.1	144.6				87.9		43.6		
Chloride	mg/L	<MDL	4.6	76.9				4.44		<MDL		
Conductivity	umhos/cm	60.8	129.9	429.0				171		83		
Hardness	mg/L	22.3	57.2	192.3				81.0		37.0		
Nitrate-Nitrite	mg/L	<MDL	0.7	8.1				<MDL		0.041		
Oil & Grease	mg/L	<MDL	2.4	6.4				<MDL		<MDL		
pH	su	6.6	7.5	8.3				8		8		
Phosphate	mg/L	<MDL	0.14	1.37				0.0350		0.0775		
ResidueFilterable-TDS	mg/L	37	116	342				112		86		
ResidueNonFilterable-TSS	mg/L	<MDL	29	450				6.0000		17.0000		
SAR		<MDL	0.76	28.16				0.3700		0.2800		
Sulfate	mg/L	<MDL	8.1	54.8				1.8		<MDL		
Aluminum (TREC)	mg/L	<MDL	1.29	11.17				0.337		1.74		
Arsenic (TREC)	mg/L	<MDL	0.0093	0.1680				0.00036		0.00032		
Cadmium (TREC)	mg/L	<MDL	0.4202	11.2000				<MDL		<MDL		
Calcium (TREC)	mg/L	<MDL	13.9	65.4				20		9.09		
Copper (TREC)	mg/L	<MDL	0.005	0.050				<MDL		<MDL		
Iron (Dissolved)	mg/L	<MDL	5.97	165.00				<MDL		<MDL		
Iron (TREC)	mg/L	0.020	0.953	5.420				0.352		1.33		
Lead (TREC)	mg/L	<MDL	0.0075	0.0500				0.00016		0.00042		
Magnesium (TREC)	mg/L	<MDL	5.35	11.10				7.41		3.46		
Manganese (TREC)	mg/L	<MDL	0.042	0.277				<MDL		0.02		
Mercury (TREC)	mg/L	<MDL	0.00007	0.00027				<MDL		<MDL		
Molybdenum (TREC)	mg/L	<MDL	0.037	0.900				<MDL		<MDL		
Selenium (TREC)	mg/L	<MDL	0.005	0.024				<MDL		0.00014		
Sodium (TREC)	mg/L	2.3	5.3	20.3				7.48		3.9		
Zinc (TREC)	mg/L	<MDL	0.023	0.160				<MDL		<MDL		

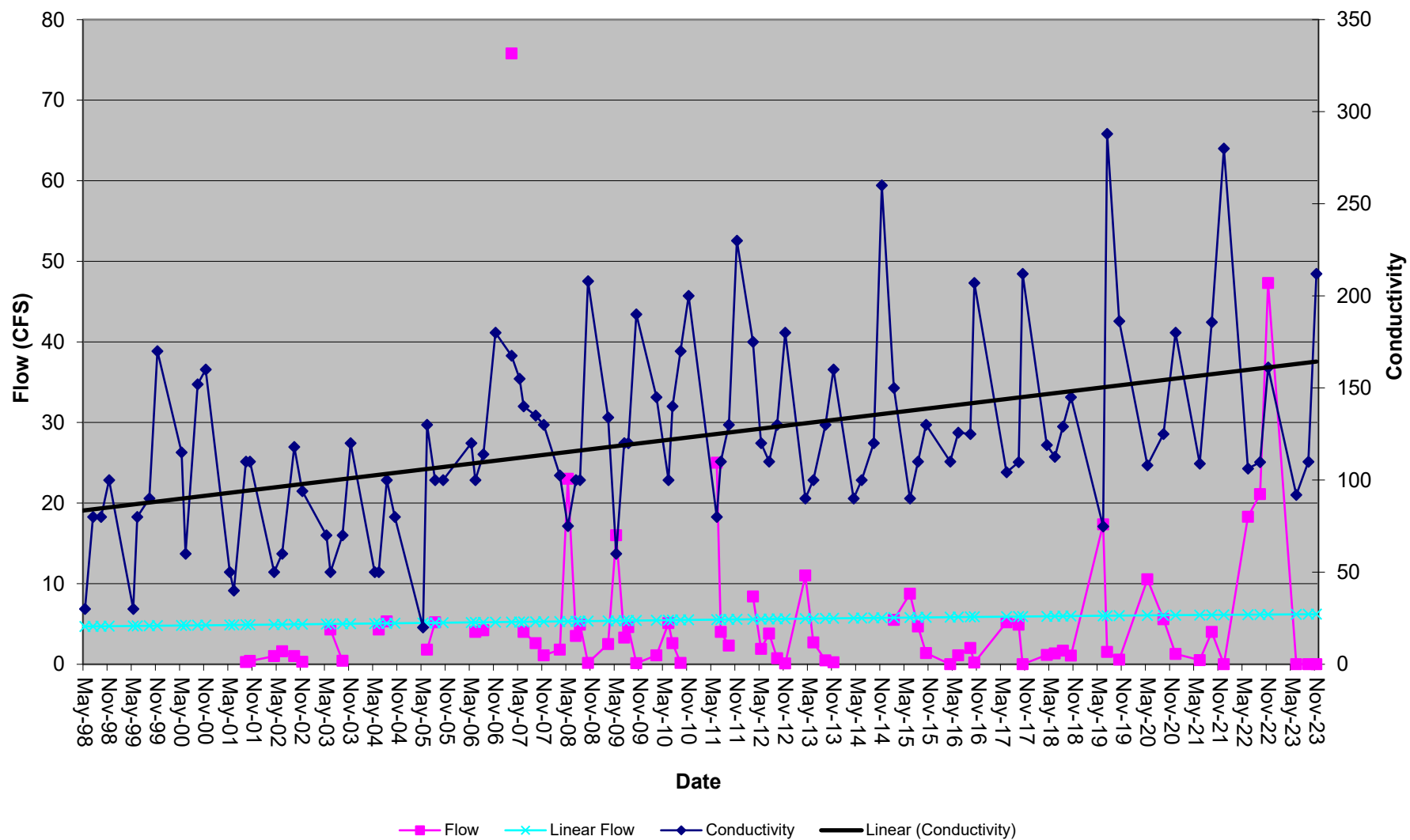
The area of concern for monitoring point D32-4 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The D32-4 Monitoring Point is on upper Terror Creek. It is located at the Cottonwood Stomp ford. This point is used to obtain conductivity, pH and temperature readings. The irregular stream channel found at this location does not provide an adequate method of determining flow values. Flow values are taken by Resource Engineering.

* Not Accessible

Baseline Information Collection initiated on 10/31/97 and not yet considered complete.
Point D32-4 has not been influenced by mining.

Plot of Flow and Conductivity



D33-14
Upper Sheep Corral Gulch
Elevation - 7320

Initiated	11/6/1998	11/6/1998	11/6/1998	11/6/1998
Activated	11/1/2003	11/1/2003	11/1/2003	11/1/2003
Date	11/20/2023	9/7/2023	6/14/2023	

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.00	0.00	0.00	1.97	98.86		0.03	1.6	
FieldComment								no flow			*
ph	su				6.5	7.9	8.5		8.25	7.98	
Conductivity	umhos/cm				330	668	807		654	524	
Temperature	Celsius				2.0	8.2	26.5		10	7.3	
Lab Parameters	UNITS										
Bicarbonate	mg/L				124.0	272.8	392.0			232	
Chloride	mg/L				1.2	2.0	2.7			<MDL	
Conductivity	umhos/cm				192.0	510.3	670.0			492	
Hardness	mg/L				63	85	118			90	
Nitrate-Nitrite	mg/L				<MDL	0.46	2.13			0.064	
Oil and Grease	mg/L				<MDL	0.82	0.82			<MDL	
pH	su				6.82	8.00	8.60			8.6	
Phosphate	mg/L				<MDL	0.03	0.04			0.0341	
ResidueFilterable-TDS	mg/L				126	307	406			308	
ResidueNonFilterable-TSS	mg/L				<MDL	3	3			<MDL	
SAR					0.71	4.79	7.70			3.7	
Sulfate	mg/L				6.50	32.67	42.50			32.9	
Aluminum	mg/L				<MDL	<MDL	<MDL			<MDL	
Arsenic	mg/L				0.009	0.009	0.009			<MDL	
Cadmium	mg/L				<MDL	<MDL	<MDL			<MDL	
Calcium	mg/L				20.0	25.2	32.7			27.8	
Copper	mg/L				<MDL	<MDL	<MDL			<MDL	
Iron (Total)	mg/L				0.02	0.05	0.08			<MDL	
Lead	mg/L				<MDL	<MDL	<MDL			<MDL	
Magnesium	mg/L				3.00	4.82	8.78			5.03	
Manganese (Total)	mg/L				0.01	0.01	0.02			<MDL	
Mercury	mg/L				<MDL	<MDL	<MDL			<MDL	
Molybdenum	mg/L				<MDL	<MDL	<MDL			<MDL	
Selenium	mg/L				0.000	0.014	0.051			0.00031	
Sodium	mg/L				12.1	94.0	139.0			79.8	
Zinc	mg/L				<MDL	<MDL	<MDL			0.038	

* Site not accesible during 1Q

Not enough water for sample during 2Q 2018

The location for monitoring point D33-14 can be found just to the south of an old coal exploration road winding through Sheep Corral Gulch. It is just above Spring and Pond SP34-11.

* flow not provided in field notes

Baseline Information for Point D33-14 is derived from events beginning on 11/6/98 through 11/1/03.
Point influenced by mining on 11/1/03.

D34-13
Dove Gulch - Drainage System
Elevation - 6440

Initiated	10/31/1997	10/31/1997	10/31/1997	10/31/1997
Activated				
Date	10/23/2023	9/5/2023	6/23/2023	

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.12	12.00				0	0	12	
FieldComment								Dry	Dry		*
ph	su				8.95	8.95	8.95			8.95	
Conductivity	umhos/cm									1036	
Temperature	Celsius				14.70	14.70	14.70			14.7	
Lab Parameters	UNITS										
Bicarbonate	mg/L				357.00	357.00	357.00			357	
Chloride	mg/L				8.44	8.44	8.44			8.44	
Conductivity	umhos/cm				985.00	985.00	985.00			985	
Hardness	mg/L				120.00	120.00	120.00			120	
Nitrate-Nitrite	mg/L				0.02	0.02	0.02			0.021	
Oil and Grease	mg/L				<MDL	<MDL	<MDL			<MDL	
pH	su				8.80	8.80	8.80			8.8	
Phosphate	mg/L				<MDL	<MDL	<MDL			<MDL	
ResidueFilterable-TDS	mg/L				622.00	622.00	622.00			622	
ResidueNonFilterable-TSS	mg/L				11.00	11.00	11.00			11	
SAR					7.60	7.60	7.60			7.6	
Sulfate	mg/L				119.00	119.00	119.00			119	
Aluminum	mg/L				0.32	0.32	0.32			0.322	
Arsenic	mg/L				0.00	0.00	0.00			0.00061	
Cadmium	mg/L				<MDL	<MDL	<MDL			<MDL	
Calcium	mg/L				29.10	29.10	29.10			29.1	
Copper	mg/L				<MDL	<MDL	<MDL			<MDL	
Iron (Total)	mg/L				0.30	0.30	0.30			0.297	
Lead	mg/L				0.00	0.00	0.00			0.00036	
Magnesium	mg/L				11.60	11.60	11.60			11.6	
Manganese (Total)	mg/L				<MDL	<MDL	<MDL			<MDL	
Mercury	mg/L				<MDL	<MDL	<MDL			<MDL	
Molybdenum	mg/L				<MDL	<MDL	<MDL			<MDL	
Selenium	mg/L				0.00	0.00	0.00			0.00031	
Sodium	mg/L				190.00	190.00	190.00			190	
Zinc	mg/L				<MDL	<MDL	<MDL			<MDL	

The area of concern for monitoring point D34-13 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The location for D34-13 is at the lower extreme of Dove Gulch, along the western edge of Hubbard Creek Trail.

D34-14
Hubbard Creek - Drainage System
Elevation - 6560

Initiated	9/30/1996	9/30/1996	9/30/1996	9/30/1996
Activated	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Date	11/13/2023	9/5/2023	6/23/2023	

		Summary Information										
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Flow	CFS	0.12	23.57	220.00								
FieldComment											*	
ph	su	6.8	8.1	8.9				8.3	8.7	8.6		
Conductivity	umhos/cm	50	202	347				261	204	85		
Temperature	Celsius	0.2	9.2	20.9				3.9	13.9	6.1		
Lab												
Parameters	UNITS											
Bicarbonate	mg/L	3.6	98.6	187.0				113		3.64		
Chloride	mg/L	<MDL	4.68	84.89				<MDL		1.51		
Conductivity	umhos/cm	74.0	197.0	439.0				243		74		
Hardness	mg/L	<MDL	83.44	150.00				94		35		
Nitrate-Nitrite	mg/L	<MDL	1.711	41.530				<MDL		<MDL		
Oil & Grease	mg/L	<MDL	0.973	2.330				<MDL		<MDL		
Phosphate	mg/L	<MDL	0.60	8.33				0.0434		0.0527		
ResidueFilterable-TDS	mg/L	33	141	353				148		78		
ResidueNonFilterable-TSS	mg/L	<MDL	19.9	166.0				6		16		
SAR		<MDL	1.09	20.50				0.77		0.22		
Sulfate	mg/L	<MDL	30.10	1234.8				13.2		<MDL		
Aluminum (TREC)	mg/L	<MDL	0.670	9.690				0.189		0.662		
Arsenic (TREC)	mg/L	<MDL	0.0070	0.1290				0.00046		0.00039		
Cadmium (TREC)	mg/L	<MDL	0.3268	11.3000				<MDL		<MDL		
Calcium (TREC)	mg/L	4.57	23.47	43.60				26.8		9.9		
Copper (TREC)	mg/L	<MDL	0.009	0.200				<MDL		<MDL		
Iron (Dissolved)	mg/L	<MDL	<MDL	<MDL				<MDL		0.124		
Iron (TREC)	mg/L	0.010	0.549	13.600				0.259		0.667		
Lead (TREC)	mg/L	<MDL	0.077	2.800				0.00015		0.00045		
Magnesium (TREC)	mg/L	0.42	6.44	16.30				6.6		2.6		
Manganese (TREC)	mg/L	<MDL	0.102	3.900				0.01		0.026		
Mercury (TREC)	mg/L	<MDL	0.00009	0.00079				<MDL		<MDL		
Molybdenum (TREC)	mg/L	<MDL	0.042	1.130				<MDL		<MDL		
Selenium (TREC)	mg/L	<MDL	0.0768	3.2700				0.00014		0.00012		
Sodium (TREC)	mg/L	2.97	12.36	42.00				16.9		3.0		
Zinc (TREC)	mg/L	<MDL	0.016	0.116				<MDL		<MDL		

The area of concern for monitoring point D34-14 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The location for the D34-14 monitoring point is on Hubbard creek just below the igneous intrusion noted as Iron Point. The location can be found where a sapling has been painted white. The point where field parameters were taken did not provide an adequate method to determine flow values. Flow values are taken by Resource Engineering.

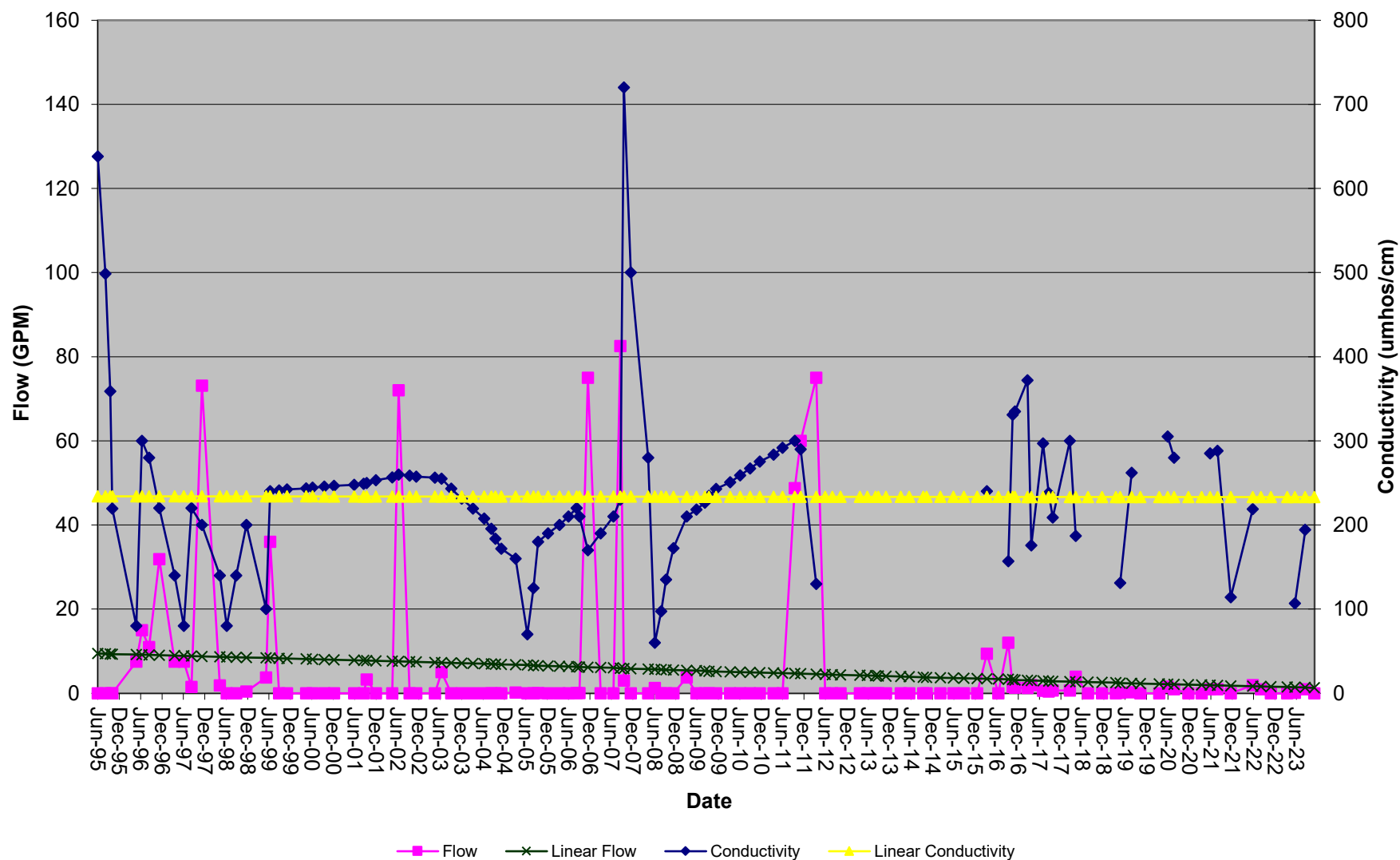
Deer-low
Canal - Deer Trail Ditch
Elevation - 5920

Initiated	6/14/1995	6/14/1995	6/14/1995	6/14/1995
Activated	3/30/1997	3/30/1997	3/30/1997	3/30/1997
Date	11/14/2023	8/28/2023	6/1/2023	3/27/2023

		Summary Information											
Field Parameters	UNITS	Baseline			Operation								
		Min	Ave	Max	Min	Ave	Max						
Flow	GPM	0	8	32	0	6	83		0.98	0.08			
Water Level in Flume	Feet				0.00	0.17	0.40		0.4	0.05			
FieldComment								Dry				Ditch off	
ph	su	6.8	8.3	9.0	7.1	8.4	9.2		8.2	7.9			
Conductivity	umhos/cm	80	276	638	60	222	720		194	107			
Temperature	Celsius	4.9	13.1	21.2	3.1	11.9	21.5		17.5	11.3			
DO	mg/L	0.0	3.7	10.7	0.0	6.8	18.6		18.6	13.4			
Lab Parameters	UNITS												
Bicarbonate	mg/L	41	70	118	39	90	131			48.7			
Chloride	mg/L	<MDL	1	2	<MDL	1.8	4.0			<MDL			
Chromium III CrIII	mg/L				<MDL	<MDL	<MDL						
Chromium VI CrIV	mg/L				<MDL	<MDL	<MDL						
Cyanide, Total	mg/L				<MDL	<MDL	<MDL						
Conductivity	umhos/cm	97	148	238	98	185	308			100			
Hardness	mg/L	48	67	96	33	81	119			48			
Nitrate-Nitrite	mg/L	<MDL	0.07	0.17	<MDL	0.02	0.04			0.041			
Nitrate	mg/L	<MDL	0.08	0.17	<MDL	0.47	2.69						
Nitrite	mg/L	<MDL	0.01	0.02	<MDL	0.00	0.01						
Dissolved Oxygen		0	0	0	<MDL	7.93	7.95						
Ammonia	mg/L				0.10	0.18	0.25						
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	2	2			<MDL			
pH	su	7.5	7.8	8.0	7.7	8.1	8.6			8			
Phosphate	mg/L	<MDL	0.03	0.08	<MDL	0.03	0.08			0.019			
ResidueFilterable-TDS	mg/L	30	93	150	70	162	302			110			
ResidueNonFilterable-TSS	mg/L	6	101	286	<MDL	15	41			15			
SAR		0.21	0.38	0.68	<MDL	0.78	6.50			0.28			
Sulfate	mg/L	<MDL	7	10	<MDL	11	20			<MDL			
Sulfide S	mg/L				<MDL	<MDL	<MDL						
Aluminum (TREC)	mg/L	0.25	3.03	7.68	0.14	0.72	2.27			2.27			
Arsenic (TREC)	mg/L	<MDL	0.001	0.002	<MDL	0.0018	0.0150			0.00066			
Boron	mg/L				0.78	0.78	0.78						
Cadmium (TREC)	mg/L	<MDL	0.001	0.003	<MDL	0.01	0.05			<MDL			
Calcium (TREC)	mg/L	13.4	18.8	26.9	9.1	22.7	33.8			13.1			
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.017			<MDL			
Iron (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.06	0.15			0.117			
Iron (TREC)	mg/L	0.45	3.83	9.79	0.10	0.85	5.29			1.74			
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0052	0.0400			0.0013			
Magnesium (TREC)	mg/L	3.4	4.9	6.9	2.5	6.0	8.6			3.58			
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	1.6	6.2						
Manganese (TREC)	mg/L	0.012	0.075	0.193	0.001	0.038	0.166			0.022			
Mercury (TREC)	mg/L	<MDL	0.00007	0.0002	<MDL	0.00005	0.0002			<MDL			
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0003	0.0010			<MDL			
Nickel	mg/L				<MDL	<MDL	<MDL						
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.002	0.010			0.00023			
Silver	mg/L				<MDL	<MDL	<MDL						
Sodium (TREC)	mg/L	3.7	7.6	15.3	3.9	10.8	31.5			4.4			
Zinc (TREC)	mg/L	0.03	0.03	0.04	<MDL	0.02	0.05			<MDL			

The lower end of Deer Trail Ditch is monitored at a point where the ditch empties into the Fire Mountain Canal.

Plot of Flow and Conductivity



Deer-low - Canal - Deer Trail Ditch

Figure 69

Deer-up
Canal - Deer Trail Ditch
Elevation - 5960

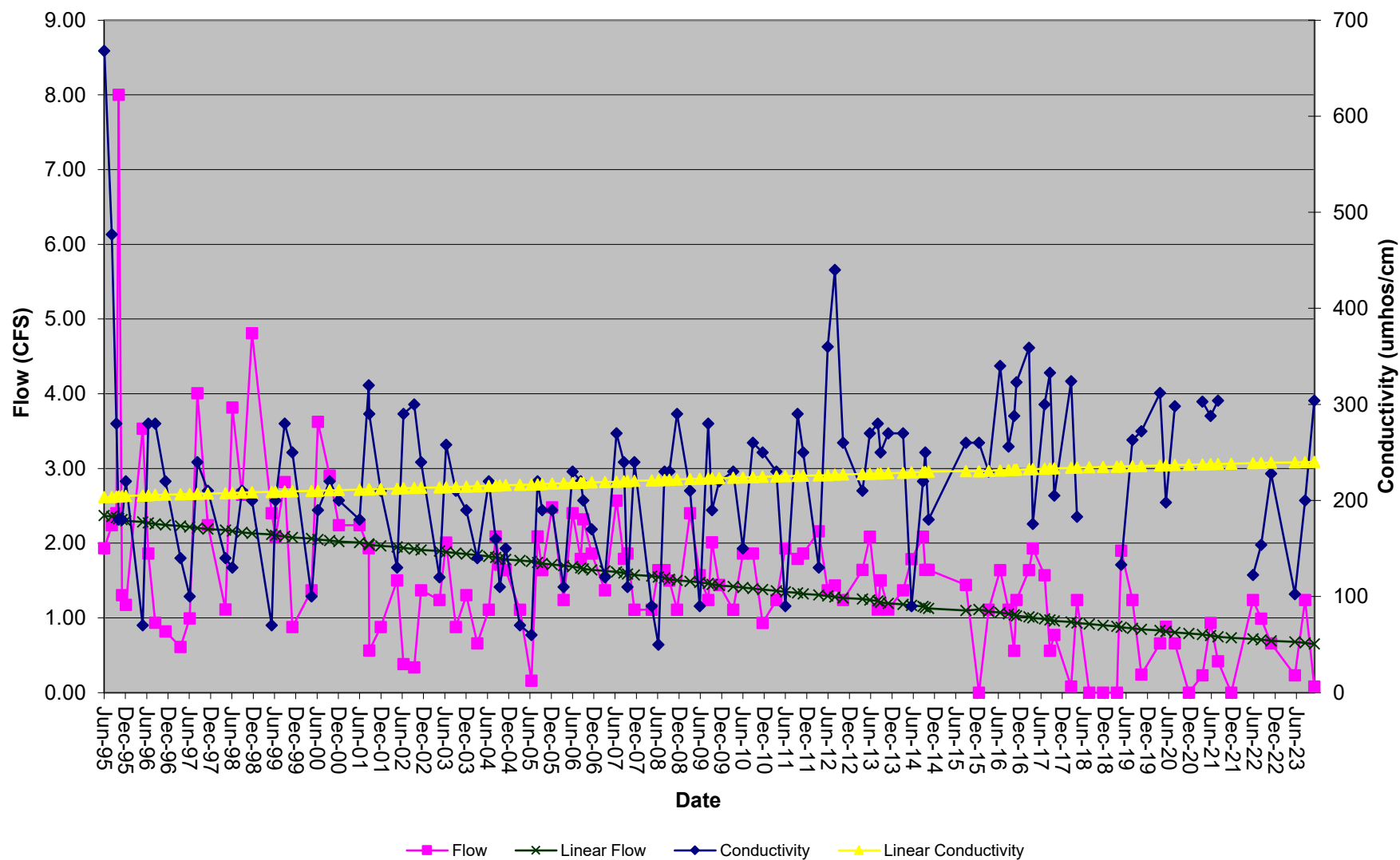
Initiated	6/14/1995	6/14/1995	6/14/1995	6/14/1995
Activated	3/30/1997	3/30/1997	3/30/1997	3/30/1997
Date	11/14/2023	8/28/2023	6/1/2023	3/27/2023

Summary Information											
Field Parameters	UNITS	Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	0.8	1.8	3.5	0.1	1.5	4.8	0.08	1.24	0.23	
Water Level in Flume	Feet	0.23	0.37	0.59	0.05	0.33	0.72	0.05	0.30	0.10	
FieldComment											No water
ph	su	6.4	8.5	9.1	7.4	8.4	9.1	8.2	8.1	8.1	
Conductivity	umhos/cm	70	286	668	50	214	440	304	200	103	
Temperature	Celsius	0.8	11.4	20.3	0.2	9.7	22.1	2.1	15.8	6.9	
DO	mg/L	0.0	3.5	7.7	0.0	9.7	69.9	21.9	17.2	14.6	
Lab Parameters	UNITS										
Bicarbonate	mg/L	51.0	73.0	117.0	-42.5	101.7	176.0	126		45.9	
Hydroxide	mg/L	0	0	0	0	0	0				
Chloride	mg/L	<MDL	1.67	3.00	<MDL	18.36	190.50	1.69	1.24	1.05	
Chromium III CrIII	mg/L				<MDL	<MDL	<MDL		<MDL		
Chromium VI CrIV	mg/L				<MDL	0.01	0.01		<MDL	<MDL	
Cyanide, Total	mg/L				<MDL	<MDL	<MDL		<MDL	<MDL	
Conductivity	umhos/cm	100	148	235	85	242	573	278		94	
Hardness	mg/L	42	61	94	<MDL	93	168	110	67	43	
Nitrate-Nitrite	mg/L	<MDL	0.02	0.07	<MDL	0.21	1.25	<MDL	0.33		
Nitrate	mg/L	<MDL	0.02	0.07	<MDL	0.33	2.87		0.33		
Nitrite	mg/L	<MDL	0.01	0.02	<MDL	0.003	0.016		<MDL		
Dissolved Oxygen	mg/L	0	0.00	0.00	<MDL	9.375	10.850				
Ammonia	mg/L				<MDL	0.149	0.290		<MDL		
Oil and Grease	mg/L				<MDL	4.3	5.5	<MDL	<MDL	<MDL	
pH	su	7.6	7.8	8.1	0.1	7.9	8.7	8.3	7.5	8.0	
Phosphate	mg/L	<MDL	0.01	0.03	<MDL	6.16	141.00	0.04196		0.0651	
ResidueFilterable-TDS	mg/L	50	100	150	60	182	475	186	130	96	
ResidueNonFilterable-TSS	mg/L	<MDL	25	52	<MDL	12	40	7		15	
SAR		0.24	0.37	0.62	<MDL	0.72	2.29	0.92		0.28	
Sulfate	mg/L	<MDL	10	20	<MDL	12.4	37.5	16.6		<MDL	
Sulfide S	mg/L				<MDL	0.13	0.13		<MDL		
Aluminum (TREC)	mg/L	0.24	1.09	1.77	<MDL	0.41	2.03	0.174		1.58	
Arsenic (TREC)	mg/L	<MDL	0.0003	0.0010	<MDL	0.0047	0.0300	0.00043	0.00072	0.0005	
Boron	mg/L				<MDL	0.82	1.40		<MDL		
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.006	0.040	<MDL	<MDL	<MDL	
Calcium (TREC)	mg/L	11.8	17.2	26.5	8.29	28.19	134.00	31.2		11.9	
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.019	<MDL	<MDL	<MDL	
Iron (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.08	0.25	<MDL	0.162	0.068	
Iron (TREC)	mg/L	0.38	1.19	1.85	0.03	10.40	618.00	0.32	0.55	1.18	
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0091	0.1000	0.00033	0.00037	0.00061	
Magnesium (TREC)	mg/L	3.0	4.4	6.7	2.5	7.6	17.6	7.9		3.2	
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.7	6.7		<MDL		
Manganese (TREC)	mg/L	0.02	0.03	0.03	0.002	0.852	26.700	<MDL	0.013	0.031	
Mercury (TREC)	mg/L	<MDL	0.0001	0.0002	<MDL	0.00007	0.0004	<MDL	<MDL	<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.003	0.011			<MDL	
Nickel	mg/L				<MDL	0.0088	0.0120		<MDL		
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0035	0.0230	<MDL	0.0002	0.00019	
Silver	mg/L				<MDL	0.0030	0.0030				
Sodium (TREC)	mg/L	3.6	7.1	13.8	3.8	18.2	66.5	22	<MDL	4.19	
Zinc (TREC)	mg/L	0.01	0.02	0.03	<MDL	0.01	0.04	<MDL	<MDL	<MDL	

The upper end of Deer Trail Ditch is monitored at the headgate located on Hubbard Creek. This monitoring point is fitted with a 2' Parshall Flume.

Negative Acidity value indicates equivalent value of alkalinity

Plot of Flow and Conductivity



FMC-low
Canal - Fire Mountain Canal
Elevation - 5920'

Initiated	5/19/1999	5/19/1999	5/19/1999	5/19/1999
Activated	5/19/1999	5/19/1999	5/19/1999	5/19/1999
Date	9/27/2023	8/28/2023	6/1/2023	3/27/2023

Summary Information											
Field Parameters	UNITS	Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS				0	156	182	0	167	172	0
FieldComment								Ditch Off			Ditch off
ph	su				6.8	8.2	8.9		8.3	7.9	
Conductivity	umhos/cm				40	148	280		170	108	
Temperature	Celsius				5.4	12.3	22.1		14.9	7.4	
DO	mg/L				0.0	9.3	81.6		23.1	17.2	
Lab Parameters	UNITS										
Bicarbonate	mg/L				25	77.3	133.8			48.70	
Chloride	mg/L				<MDL	8.1	51.0			6.35	
Conductivity	umhos/cm				71	165	346			100	
Hardness	mg/L				27.58	77.84	521.00			49	
Nitrate-Nitrite	mg/L				<MDL	0.34	2.70			0.022	
Oil and Grease	mg/L				<MDL	46.51	68.00			<MDL	
pH	su				6.4	7.8	8.4			8.1	
Phosphate	mg/L				<MDL	0.05	0.24			0.0589	
ResidueFilterable-TDS	mg/L				40	117	300			96	
ResidueNonFilterable-TSS	mg/L				<MDL	66	474			87	
SAR					<MDL	0.50	1.55			0.23	
Sulfate	mg/L				<MDL	12.11	51.86			5.7	
Aluminum (TREC)	mg/L				<MDL	1.49	12.70			3.98	
Arsenic (TREC)	mg/L				<MDL	0.0047	0.1000			0.00089	
Cadmium (TREC)	mg/L				<MDL	0.0068	0.1000			<MDL	
Calcium (TREC)	mg/L				7.45	19.7	37.1			14.3	
Copper (TREC)	mg/L				<MDL	0.015	0.149			<MDL	
Iron (TREC)	mg/L				0.02	1.52	12.30			3.25	
Lead (TREC)	mg/L				<MDL	0.0064	0.0500			0.00208	
Magnesium (TREC)	mg/L				0.06	4.26	15.20			3.26	
Manganese (TREC)	mg/L				0.007	0.043	0.222			0.048	
Mercury (TREC)	mg/L				<MDL	0.000186	0.003000			<MDL	
Molybdenum (TREC)	mg/L				<MDL	0.004	0.02			<MDL	
Selenium (TREC)	mg/L				<MDL	0.0020	0.0120			0.00024	
Sodium (TREC)	mg/L				2.8	10.9	41.4			3.71	
Zinc (TREC)	mg/L				<MDL	0.038	0.630			<MDL	

The area of concern for monitoring point FMC-low was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered operational.

The lower monitoring point for the Fire Mountain Canal is located at a point just south of its crossing under old State Hwy 133. Flow data is received from Fire Mountain Canal records (Trey Dennison 970-527-5166 or cell 970-589-2857).

* Flow at full capacity near Somerset from their website. Did not receive a call back with actual values.

** Average flow values from last five years

Note: The Fire Mountain Canal was dry before field parameters could be obtained 3Q (2021)

FMC-up
Canal - Fire Mountain Canal
Elevation - 5960'

Initiated	5/19/1999	5/19/1999	5/19/1999	5/19/1999
Activated	5/19/1999	5/19/1999	5/19/1999	5/19/1999
Date	9/27/2023	8/28/2023	6/1/2023	3/27/2023

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS				0	153	182	0	167	172	0
FieldComment								Ditch Off			Ditch off
ph	su				7.0	8.2	8.9		8.1	8.3	
Conductivity	umhos/cm				40	143	290		178	112	
Temperature	Celsius				4.9	12.1	22.2		14.4	7.0	
DO	mg/L				0.0	9.1	82.3		19.6	13.6	
Lab Parameters	UNITS										
Bicarbonate	mg/L				2.00	75.01	147.00			50.2	
Chloride	mg/L				<MDL	10.0	103			1.08	
Conductivity	umhos/cm				64	170	402			102	
Hardness	mg/L				27.78	70.72	172.49			52	
Nitrate-Nitrite	mg/L				<MDL	0.27	2.15			0.024	
Oil and Grease	mg/L				<MDL	<MDL	<MDL			<MDL	
pH	su				6.6	7.8	8.6			8.1	
Phosphate	mg/L				<MDL	0.05	0.24			0.0682	
ResidueFilterable-TDS	mg/L				40	121	364			90	
ResidueNonFilterable-TSS	mg/L				<MDL	87	692			82	
SAR					<MDL	0.47	1.77			0.23	
Sulfate	mg/L				<MDL	11.70	51.86			23.6	
Aluminum (TREC)	mg/L				<MDL	2.01	22.50			4.12	
Arsenic (TREC)	mg/L				<MDL	0.0044	0.0450			0.00085	
Cadmium (TREC)	mg/L				<MDL	0.0022	0.0100			<MDL	
Calcium (TREC)	mg/L				2.3	20.2	45.0			15.2	
Copper (TREC)	mg/L				<MDL	0.0153	0.1440			<MDL	
Iron (TREC)	mg/L				0.03	2.07	26.30			2.72	
Lead (TREC)	mg/L				<MDL	0.0056	0.0300			0.00193	
Magnesium (TREC)	mg/L				1.5	4.5	14.6			3.3	
Manganese (TREC)	mg/L				0.007	0.058	0.494			0.056	
Mercury (TREC)	mg/L				<MDL	0.00004	0.00018			<MDL	
Molybdenum (TREC)	mg/L				<MDL	0.004	0.030			<MDL	
Selenium (TREC)	mg/L				<MDL	0.0019	0.0110			0.00029	
Sodium (TREC)	mg/L				2.8	10.2	36.6			3.8	
Zinc (TREC)	mg/L				<MDL	0.018	0.090			<MDL	

The area of concern for monitoring point FMC-up was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered operational.

The upper monitoring point for the Fire Mountain Canal is located where the ditch crosses Hubbard Creek. Flow data is received from Fire Mountain Canal records (Trey Dennison 970-527-5166 or cell 970-589-2857).

* Flow at full capacity near Somerset from their website. Did not receive a call back with actual values.

** Average flow values from last five years

Note: The Fire Mountain Canal was dry before field parameters could be obtained 3Q (2020)

There is no baseline collection possible for points initiated after the influence of mining.

Free-low
Freeman Gulch - Drainage System
Elevation - 7560

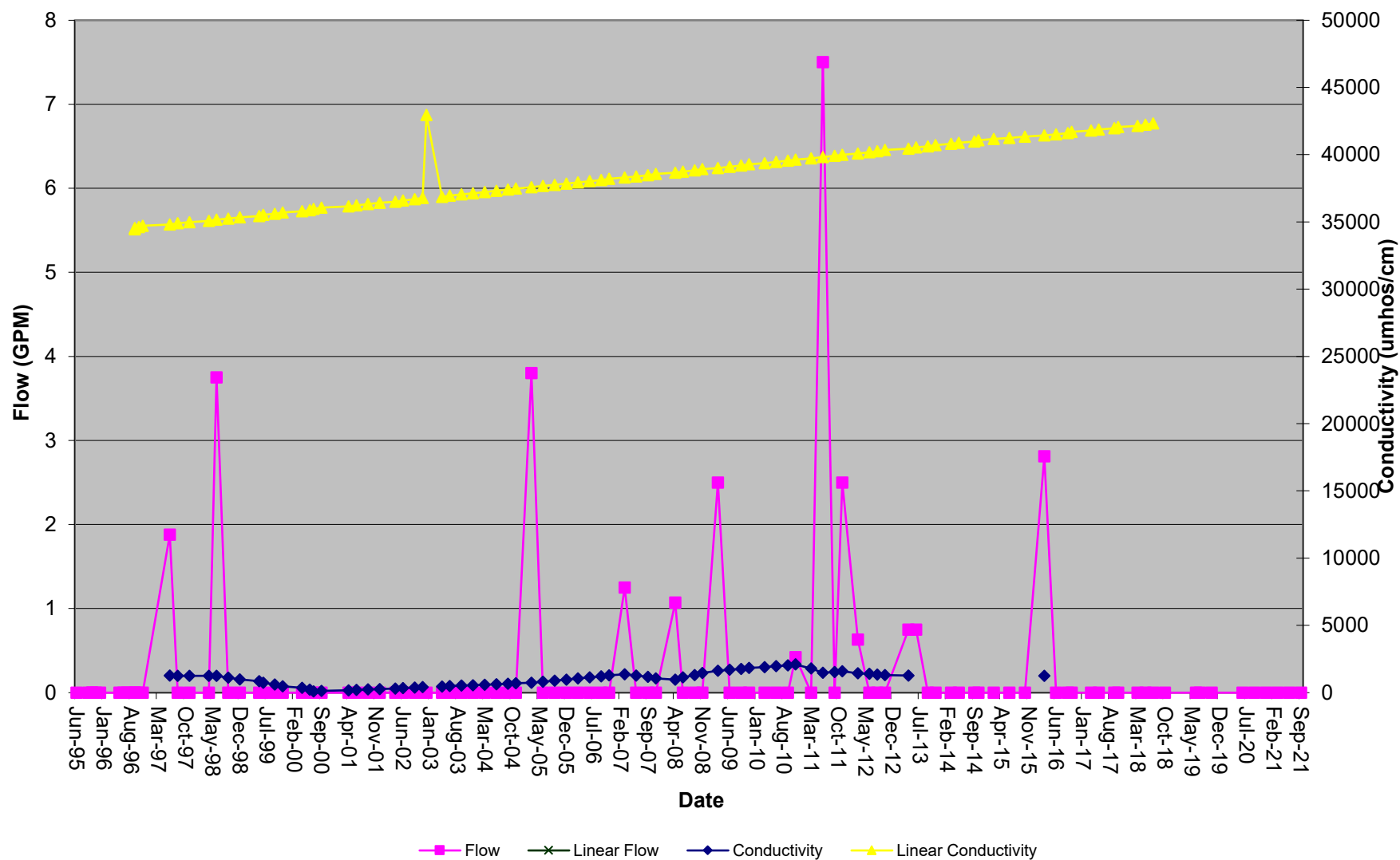
Initiated	6/12/1995	6/12/1995	6/12/1995	6/12/1995
Activated	6/23/1999	6/23/1999	6/23/1999	6/23/1999
Date	10/23/2023	9/5/2023	6/28/2023	3/27/2023

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.24	3.75	0.00	0.31	7.50	0	0	5.1	
FieldComment								Dry	Dry		*
ph	su	8.3	8.5	8.6	7.3	8.2	8.6			8.2	
Conductivity	umhos/cm	1240	1250	1260	90	1313	2100			1432	
Temperature	Celsius	18.4	19.8	21.2	0.6	12.6	23.0			16.2	
Lab Parameters	UNITS										
Bicarbonate	mg/L	594	604	614	238.6	369.8	543.9			452	
Chloride	mg/L	16	18	19	3.06	7.44	11.41			5.36	
Conductivity	umhos/cm	1170	1190	1210	1321	1655	2470			1360	
Hardness	mg/L	404	430	456	308.0	383.6	578.9			320	
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	0.48	0.48	0.48			<MDL	
Oil and Grease	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			<MDL	
pH	su	8.3	8.3	8.4	7.6	7.9	8.4			8.4	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			<MDL	
ResidueFilterable-TDS	mg/L	730	765	800	908	1175	1590			908	
ResidueNonFilterable-TSS	mg/L	<MDL	3	6	6	36	90			<MDL	
SAR		2.48	2.63	2.78	2.91	4.84	6.00			6	
Sulfate	mg/L	130	130	130	293.0	360.0	507.5			293	
Aluminum (TREC)	mg/L	0.13	0.21	0.29	<MDL	0.40	0.61			<MDL	
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL	0.000	0.004	0.006			0.00045	
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	0.002	0.005	0.010			<MDL	
Calcium (TREC)	mg/L	56.4	61.2	65.9	50.80	66.25	98.40			64.2	
Copper (TREC)	mg/L	<MDL	0.005	0.01	0.01	0.02	0.02			<MDL	
Iron (TREC)	mg/L	0.11	0.15	0.19	0.06	0.08	0.10			0.098	
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	0.00	0.02	0.03			0.00013	
Magnesium (TREC)	mg/L	64.1	67.5	70.8	38.7	53.0	80.9			38.7	
Manganese (TREC)	mg/L	0.010	0.013	0.016	0.00	0.03	0.06			<MDL	
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	0.00001	0.00006	0.00008			<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.003	0.005			<MDL	
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.012	0.018			0.00084	
Sodium (TREC)	mg/L	120	124	127	163.0	199.7	223.5			201.0	
Zinc (TREC)	mg/L	<MDL	0.01	0.03	<MDL	0.03	0.06			<MDL	

* Site inaccessible to snow

Baseline Information for Point Free-low is derived from events beginning 6/12/95 through 6/23/99.
Point influenced by mining on 6/23/99.

Plot of Flow and Conductivity



Free-up
Freeman Gulch - Drainage System
Elevation - 6360

Initiated	6/12/1995	6/12/1995	6/12/1995	6/12/1995
Activated	6/28/1999	6/28/1999	6/28/1999	6/28/1999
Date	10/23/2023	9/5/2023	6/28/2023	3/27/2023

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.00	0.00	0.00	0.27	10.30	0	0	3.1	
FieldComment								Dry	Dry	<5 GPM	*
ph	su				6.68	7.66	8.31			8.3	
Conductivity	umhos/cm				603.00	699.40	759.00			603	
Temperature	Celsius				7.20	9.50	12.90			12.9	
Lab Parameters	UNITS										
Bicarbonate	mg/L				323.00	341.50	360.00				
Chloride	mg/L				<MDL	<MDL	2.20				
Conductivity	umhos/cm				519.00	587.50	656.00				
Hardness	mg/L				237.00	241.00	245.00				
Nitrate-Nitrite	mg/L				0.00	<MDL	0.00				
Oil and Grease	mg/L				0.00	<MDL	0.00				
pH	su				7.37	7.37	7.55				
Phosphate	mg/L				0.02	<MDL	0.02				
ResidueFilterable-TDS	mg/L				418.00	429.00	429.00				
ResidueNonFilterable-TSS	mg/L				7.40	<MDL	7.40				
SAR					1.86	1.86	1.91				
Sulfate	mg/L				96.50	<MDL	96.50				
Aluminum	mg/L				0.00	<MDL	0.00				
Arsenic	mg/L				0.00	<MDL	0.00				
Cadmium	mg/L				0.02	0.02	0.02				
Calcium	mg/L				66.10	67.70	67.70				
Copper	mg/L				0.00	<MDL	0.00				
Iron (Total)	mg/L				0.03	0.03	0.07				
Lead	mg/L				0.00	<MDL	0.00				
Magnesium	mg/L				17.40	18.50	18.50				
Manganese (Total)	mg/L				0.01	0.01	0.01				
Mercury	mg/L				0.11	<MDL	0.11				
Molybdenum	mg/L				0.00	<MDL	0.00				
Selenium	mg/L				0.08	0.08	0.08				
Sodium	mg/L				57.60	68.20	68.20				
Zinc	mg/L				0.00	<MDL	0.00				

* Site in accesible due to snow

Upper Freeman Gulch is monitored just below Pond 2 at the upper end of Freeman Gulch, near drill holes DH34-B and DH34-C.

Note: Site was not accessible during 1Q 2018

Baseline Information for Point Free-up is derived from events beginning 6/12/95 through 6/28/99.
Point influenced by mining on 6/28/99.

HUB-low
Hubbard Creek - Drainage System
Elevation - 5880

Initiated	9/30/1996	9/30/1996	9/30/1996	9/30/1996
Activated	6/23/1999	6/23/1999	6/23/1999	6/23/1999
Date	11/13/2023	8/28/2023	6/1/2023	3/27/2023

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	2.90	19.67	85.51	0.04	27.78	294.00	2.1	7.5	288.0	35.7
FieldComment											
ph	su	8.0	8.5	9.3	7.1	8.3	9.0	8.3	8.3	8.0	8.5
Conductivity	umhos/cm	80	198	390	50	306	850	348	233	105	192
Temperature	Celsius	2.3	11.1	20.2	0.3	9.6	21.7	3.7	15.8	6.1	6.6
Lab Parameters	UNITS										
Bicarbonate	mg/L	62	115	155	28	138	690	138		46.2	
Chloride	mg/L	<MDL	1.7	3.0	<MDL	24.7	203.6	1.81		<MDL	
Conductivity	umhos/cm	118	254	406	87	316	711	317		96	
Hardness	mg/L	49	96	138	0.06	122.30	315.52	117		46	
Nitrate-Nitrite	mg/L	<MDL	0.05	0.29	<MDL	0.17	1.62	<MDL		0.058	
Oil and Grease	mg/L	<MDL	3.0	3.0	<MDL	3.0	3.0	<MDL		<MDL	
pH	su	7.5	7.9	8.3	6.9	8.0	8.4	8.1		8.0	
Phosphate	mg/L	<MDL	0.004	0.030	<MDL	0.04	0.27	<MDL		0.1	
ResidueFilterable-TDS	mg/L	100	163	260	60	227	563	188		96	
ResidueNonFilterable-TSS	mg/L	<MDL	33	170	<MDL	21	200	12		47	
SAR		<MDL	0.47	1.04	<MDL	0.84	2.62	1.10		0.29	
Sulfate	mg/L	<MDL	17	50	<MDL	31	102	25.6		<MDL	
Aluminum (TREC)	mg/L	0.05	0.58	1.91	<MDL	18.71	733.00	0.185		2.25	
Arsenic (TREC)	mg/L	<MDL	0.0004	0.0010	<MDL	0.0068	0.0600	0.00048		0.00062	
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.010	0.040	<MDL		<MDL	
Calcium (TREC)	mg/L	13.8	26.2	36.7	8.5	31.6	70.7	32.5		12.7	
Copper (TREC)	mg/L	<MDL	0.001	0.010	<MDL	0.008	0.060	<MDL		<MDL	
Iron (TREC)	mg/L	0.09	0.54	1.44	0.06	0.38	1.81	0.29		1.81	
Iron (Dissolved)	mg/L	0.00	#DIV/0!	0.00	0.07	0.13	0.17	<MDL		0.10	
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0122	0.0700	0.00018		0.00103	
Magnesium (TREC)	mg/L	3.6	7.4	11.2	2.4	10.8	34.6	8.6		3.4	
Manganese (TREC)	mg/L	0.009	0.016	0.034	<MDL	0.023	0.080	0.016		0.048	
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00007	0.00018	<MDL		<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.006	0.030	<MDL		<MDL	
Selenium (TREC)	mg/L	<MDL	0.001	0.010	<MDL	0.0037	0.0200	<MDL		0.0002	
Sodium (TREC)	mg/L	5.3	15.9	27.6	3.6	24.2	73.0	26.9		4.4	
Zinc (TREC)	mg/L	<MDL	0.01	0.04	<MDL	0.009	0.037	<MDL		<MDL	

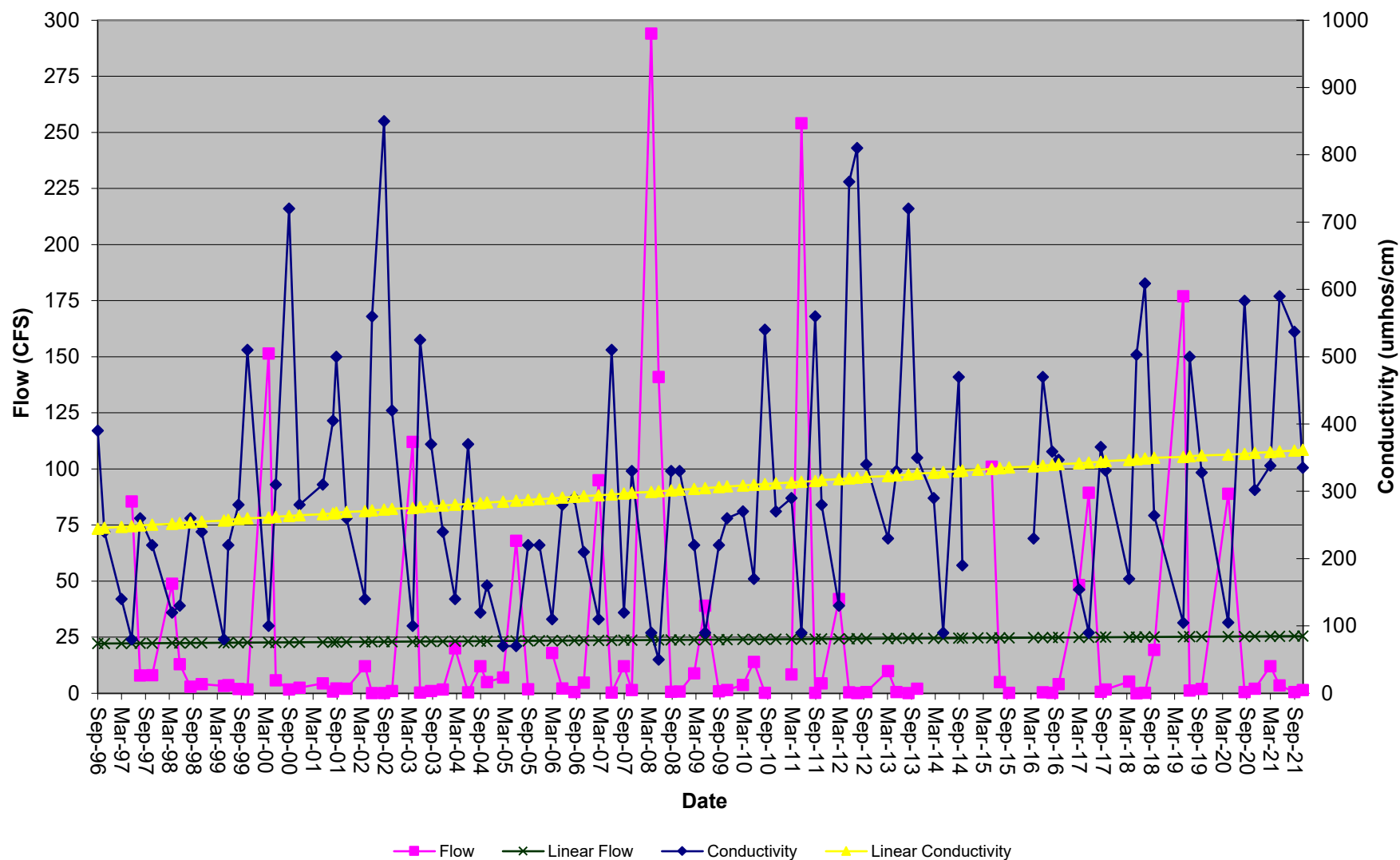
Note 1: USGS did not collect flow values.

* Flow not provided

The Lower Hubbard Creek monitoring point is located at a concrete box culvert under the Union Pacific railroad track just above the North Fork of the Gunnison. Flow values are taken from USGS site # 9132960

Baseline Information for Point Hub-low is derived from events beginning on 9/30/96 through 6/23/99.
Point influenced by mining on 6/23/99.

Plot of Flow and Conductivity



Bowie Resources, LLC
Bowie No. 2 Mine
2023 Annual Hydrology Report

Surface Water

NFG-low
North Fork - Drainage System
Elevation - 5680

Initiated	9/30/1996	9/30/1996	9/30/1996	9/30/1996
Activated	3/31/1997	3/31/1997	3/31/1997	3/31/1997
Date	11/14/2023	8/28/2023	6/7/2023	3/27/2023

Summary Information											
Field Parameters	UNITS	Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	99	292	610	30	494	3080	69.6	252	2680	541
FieldComment											
ph	su	8.1	8.4	8.7	5.0	8.3	9.1	8.1	8.3	7.7	8.4
Conductivity	umhos/cm	160	180	200	26	192	356	242	206	114	301
Temperature	Celsius	4.0	8.5	14.6	0.3	10.8	22.6	3.2	16.3	9.6	3.1
DO	mg/L				0.0	9.6	91.7	23.2	18.2	20.1	3.01
Lab Parameters	UNITS										
Bicarbonate	mg/L	95	100	105	28.1	82.2	148.0	96.1		50	
Chloride	mg/L	2.00	2.50	3.00	<MDL	23.13	288.30	3.53	<MDL	<MDL	
Chromium III CrIII	mg/L				<MDL	<MDL	<MDL				
Chromium VI CrIV	mg/L				<MDL	<MDL	<MDL		<MDL		
Cyanide, Total	mg/L				<MDL	<MDL	<MDL				
Conductivity	umhos/cm	201	222	242	78	205	754	223		100	
Hardness	mg/L	84	85	85	<MDL	82.86	270.40	93	80	51	
Nitrate	mg/L	<MDL	0.08	0.16	<MDL	0.32	3.90	<MDL	0.026		
Nitrate-Nitrite	mg/L	0.00	0.08	0.16	<MDL	<MDL	<MDL	<MDL	0.026	0.069	
Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL	0.002	0.010		<MDL		
Ammonia	mg/L	<MDL	<MDL	<MDL	<MDL	0.06	0.31		<MDL		
Oil & Grease	mg/L	<MDL	<MDL	<MDL	<MDL	4	5	<MDL	<MDL	<MDL	
pH	su	8.0	8.0	8.0	7.0	7.9	8.8	8.3	7.7	8.1	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.10	1.50	<MDL		0.011	
ResidueFilterable-TDS	mg/L	130	140	150	13	150	692	144	12.7	84	
ResidueNonFilterable-TSS	mg/L	<MDL	3	6	<MDL	24	141	46		62	
SAR		0.55	0.61	0.66	<MDL	0.59	2.42	0.61		0.25	
Sulfate	mg/L	10.0	15.0	20.0	<MDL	15.8	82.5	15.9		<MDL	
Sulfide S	mg/L				<MDL	0.04	0.04		<MDL		
Aluminum (TREC)	mg/L	0.10	0.15	0.21	<MDL	0.47	2.58	0.761		2.58	
Arsenic (TREC)	mg/L	<MDL	0.001	0.001	<MDL	0.0051	0.0500	0.00051	0.00111	0.00066	
Boron	mg/L				0.02	0.46	1.35		<MDL		
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0029	0.0180	<MDL	<MDL	<MDL	
Calcium (TREC)	mg/L	24.6	24.8	25.0	6.9	26.5	132.0	27.4		14.9	
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.012	0.198	<MDL	<MDL	<MDL	
Iron, Dissolved	mg/L	<MDL	<MDL	<MDL	<MDL	0.35	12.90	<MDL	<MDL	<MDL	
Iron (TREC)	mg/L	0.14	0.21	0.27	<MDL	0.58	4.25	0.76	4.17	2.41	
Lead (TREC)	mg/L	<MDL	0.010	0.020	<MDL	0.0099	0.1500	0.00084	0.00272	0.00691	
Magnesium (TREC)	mg/L	5.30	5.50	5.70	1.98	5.94	18.80	6.02		3.37	
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.146	2.900				
Manganese (TREC)	mg/L	0.021	0.090	0.160	0.007	0.048	0.802	0.111	0.097	0.045	
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00007	0.00030	<MDL	<MDL	<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.030	<MDL		<MDL	
Nickel	mg/L				<MDL	0.010	0.010		<MDL		
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.003	0.034	0.00016	0.00025	0.0002	
Silver	mg/L				<MDL	<MDL	<MDL		<MDL		
Sodium (TREC)	mg/L	11.5	12.2	12.9	3.0	14.3	91.5	13.3		4.1	
Zinc (TREC)	mg/L	0.02	0.02	0.03	<MDL	0.02	0.16	<MDL	<MDL	0.022	

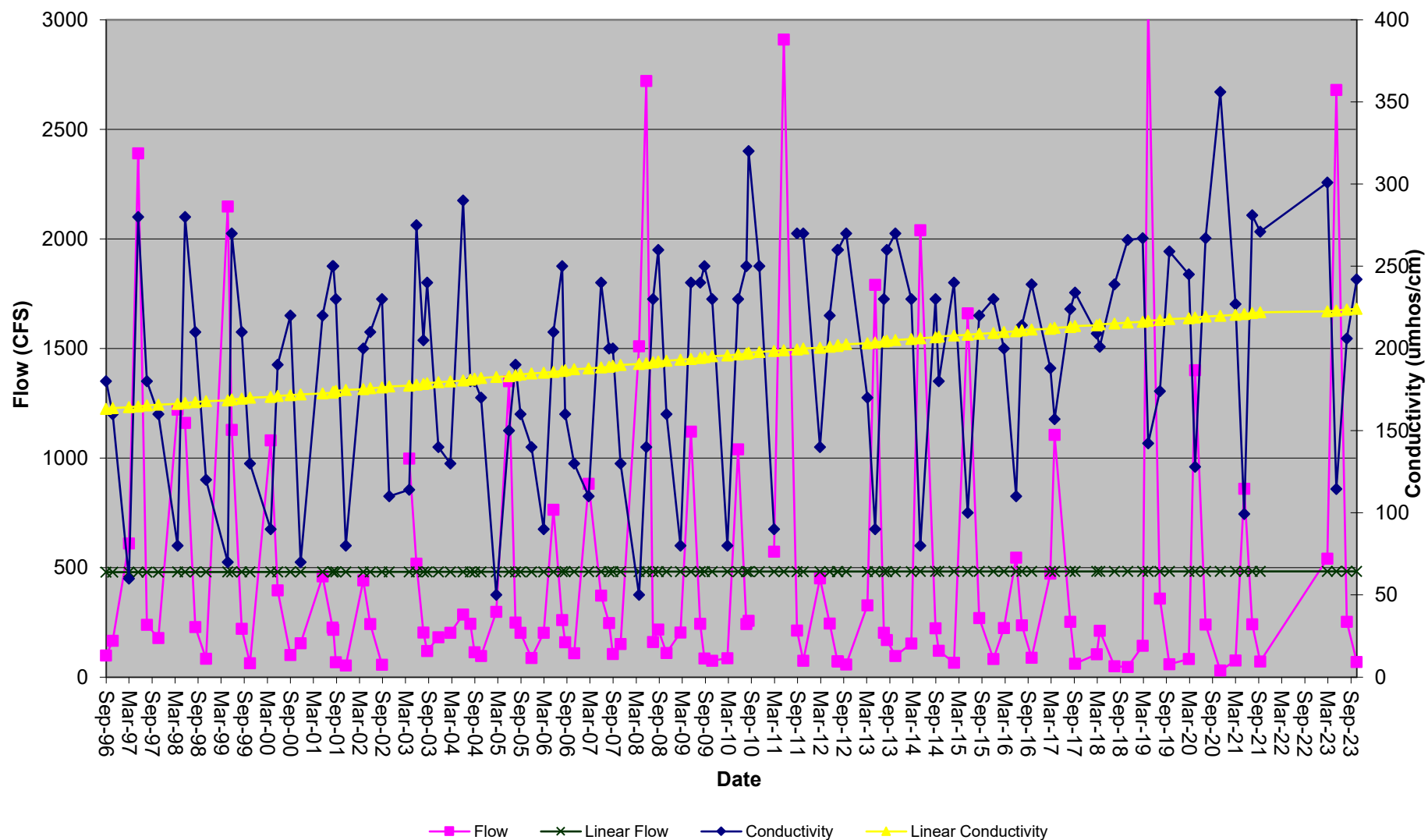
Field parameters, except flow, for the Lower North Fork of the Gunnison River are taken on the river approximately 1500' below the confluence of Terror Creek and the North Fork of the Gunnison. Flow data for the North Fork of the Gunnison river is obtained from USGS station #09132500.

* Site not accessible 1Q

** No data, covered in ice

Baseline Information for Point NFG-low is derived from events beginning on 9/30/96 through 3/31/97. Point influenced by mining on 3/31/97.

Plot of Flow and Conductivity



NFG-up
North Fork - Drainage System
Elevation - 5880

Initiated	9/30/1996	9/30/1996	9/30/1996	9/30/1996
Activated	3/31/1997	3/31/1997	3/31/1997	3/31/1997
Date	11/14/2023	8/28/2023	6/7/2023	3/27/2023

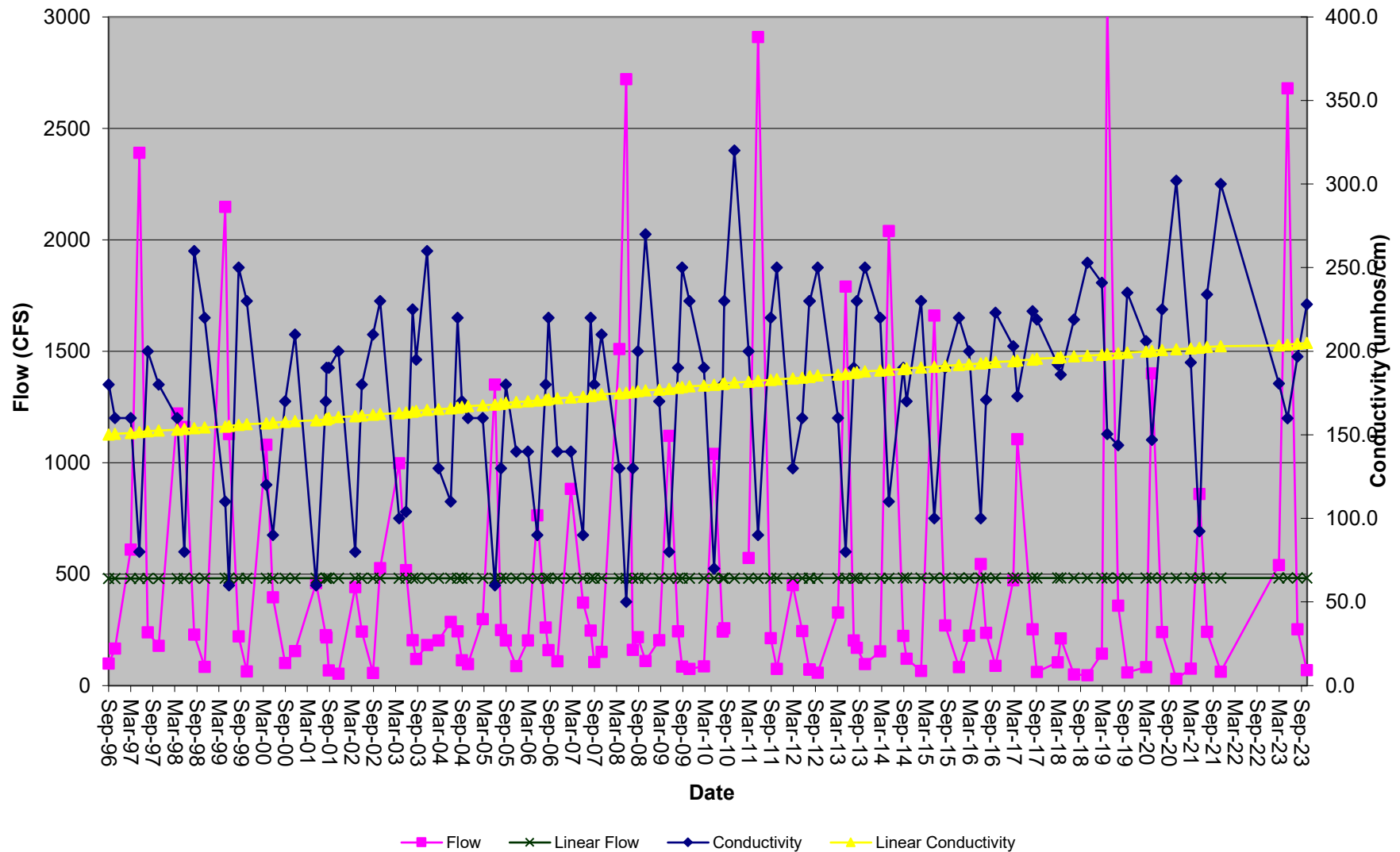
Field Parameters	UNITS	Summary Information			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	99	292	610	30	494	3080	69.6	252	2680	541
FieldComment											
pH	su	8.1	8.5	8.8	7.1	8.3	9.7	8.2	8.1	8.0	8.4
Conductivity	umhos/cm	160	167	180	50	178	320	228.0	196.8	159.9	180.7
Temperature	Celsius	3.6	7.3	13.7	0.2	10.2	22.6	1.2	14.3	8.2	6.8
DO	mg/L				0.1	10.1	91.2	20.2	20.7	20.2	3.4
Lab Parameters	UNITS										
Bicarbonate	mg/L	88	93	98	31	82	203	89		58.5	
Chloride	mg/L	2.0	2.5	3.0	<MDL	26.9	471.5	3.93	3.45	<MDL	
Chromium III CrIII	mg/L				<MDL	<MDL	<MDL		<MDL		
Chromium VI CrIV	mg/L				<MDL	0.008	0.008		<MDL		
Cyanide, Total	mg/L				<MDL	0.067	0.081				
Conductivity	umhos/cm	185	205	225	7	197	668	206		124	
Hardness	mg/L	74	77	79	26.5	78.7	253.0	84.00		64.00	
Nitrate	mg/L	<MDL	0.05	0.09	<MDL	0.34	3.47	0.024	0.091		
Nitrate/Nitrite	mg/L	0.00	0.05	0.09	<MDL	0.3	3		0.091	0.312	
Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.017		<MDL		
Ammonia	mg/L	<MDL	<MDL	<MDL	<MDL	0.04	0.23		<MDL		
Oil & Grease	mg/L	<MDL	<MDL	<MDL	<MDL	7	11	<MDL	<MDL	<MDL	
pH	su	7.9	8.0	8.0	6.9	7.9	9.0	8.3	7.6	8.2	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.12	1.90	<MDL		0.0992	
ResidueFilterable-TDS	mg/L	120	130	140	9	145	522	130	132	106	
ResidueNonFilterable-TSS	mg/L	10	11	12	<MDL	26	131	<MDL		127	
SAR		0.42	0.60	0.78	<MDL	0.63	2.39	0.64		0.26	
Sulfate	mg/L	10	15	20	<MDL	18	80	12.9	11.2	10.3	
Sulfide S	mg/L				<MDL	0.05	0.05		<MDL		
Aluminum (TREC)	mg/L	0.08	0.18	0.27	<MDL	15.92	691.00	0.253		3.57	
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0038	0.0350	0.0003	0.011	0.0008	
Boron	mg/L				0.02	0.41	1.20		0.043		
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.007	0.031	<MDL	<MDL	<MDL	
Calcium (TREC)	mg/L	21.9	22.9	24.0	7.0	24.1	138.0	25.6	20.3	17.6	
Copper (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.014	0.197	<MDL	0.069	<MDL	
Iron, Dissolved	mg/L				<MDL	0.73	22.80	<MDL	0.093	0.084	
Iron (TREC)	mg/L	0.09	0.09	0.09	0.03	3.00	81.00	0.231	66.6	3.61	
Lead (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.0113	0.1200	0.00027	0.0556	0.00184	
Magnesium (TREC)	mg/L	4.70	4.70	4.70	0.13	5.30	23.40	4.86		4.95	
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.49	4.66		<MDL		
Manganese (TREC)	mg/L	0.011	0.015	0.019	<MDL	0.178	7.600	0.19	0.962	0.097	
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00006	0.00022	<MDL	<MDL	<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.004	0.030	<MDL		<MDL	
Nickel	mg/L				<MDL	0.03	0.05		0.0456		
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL	<MDL	0.003	0.027	0.00011	0.00087		
Silver	mg/L				<MDL	<MDL	<MDL		<MDL		
Sodium (TREC)	mg/L	8.6	12.0	15.3	3.2	124.6	5420.0	13.3		4.8	
Zinc (TREC)	mg/L	0.020	0.025	0.030	<MDL	0.021	0.233	<MDL	0.233	<MDL	

Field parameters, except flow in the Upper North Fork of the Gunnison River monitoring point are taken on the river just above its confluence with Hubbard Creek. Flow data for the North Fork of the Gunnison river is obtained from USGS station #09132500.

* Site not accessible

** No data, covered in ice

Plot of Flow and Conductivity



Steph-low
Stevens Draw - Drainage System
Elevation - 7000'

Initiated	7/12/1995	7/12/1995	7/12/1995	7/12/1995
Activated	7/1/2002	7/1/2002	7/1/2002	7/1/2002
Date	10/9/2023	9/28/2023	5/23/2023	

Field Parameters	UNITS	Summary Information			Operation						
		Baseline	Baseline	Baseline	Operation	Operation	Operation				
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.19	4.00				0	0	0	
FieldComment								Dry	Dry	Dry	*
ph	su	7.9	8.2	8.4							
Conductivity	umhos/cm	1020	1139	1310							
Temperature	Celsius	3.8	10.8	17.2							
Lab Parameters	UNITS										
Bicarbonate	mg/L	452	495	554							
Chloride	mg/L	14	16	20							
Conductivity	umhos/cm	1020	1093	1180							
Hardness	mg/L	343	382	433							
Nitrate-Nitrite	mg/L	0.02	0.20	0.97							
Oil and Grease	mg/L	<MDL	1	4							
pH	su	8.0	8.2	8.3							
Phosphate	mg/L	<MDL	<MDL	<MDL							
ResidueFilterable-TDS	mg/L	660	718	780							
ResidueNonFilterable-TSS	mg/L	<MDL	21	58							
SAR		<MDL	2.28	3.22							
Sulfate	mg/L	150	170	190							
Aluminum	mg/L	0.05	0.53	1.71							
Arsenic	mg/L	<MDL	0.001	0.002							
Cadmium	mg/L	<MDL	<MDL	<MDL							
Calcium	mg/L	49.4	59.6	72.4							
Copper	mg/L	<MDL	0.002	0.010							
Iron (Total)	mg/L	0.27	0.82	2.57							
Lead	mg/L	<MDL	<MDL	<MDL							
Magnesium	mg/L	41.3	55.9	66.2							
Manganese (Total)	mg/L	0.070	0.211	0.566							
Mercury	mg/L	<MDL	<MDL	<MDL							
Molybdenum	mg/L	<MDL	<MDL	<MDL							
Selenium	mg/L	<MDL	0.0002	0.001							
Sodium	mg/L	99.8	120.0	152.0							
Zinc	mg/L	<MDL	0.01	0.03							

The area of concern for monitoring point Steph-low has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

The monitoring point location for Lower Stevens Draw is located in Stevens Draw, just below Pond 1 and Spring 14. It is accessed by a southern fork of the Stevens Draw road.

Steph-up
Stevens Draw - Drainage System
Elevation - 7920'

Initiated	7/12/1995	7/12/1995	7/12/1995	7/12/1995
Activated	7/1/2002	7/1/2002	7/1/2002	7/1/2002
Date	10/9/2023	9/28/2023	5/23/2023	

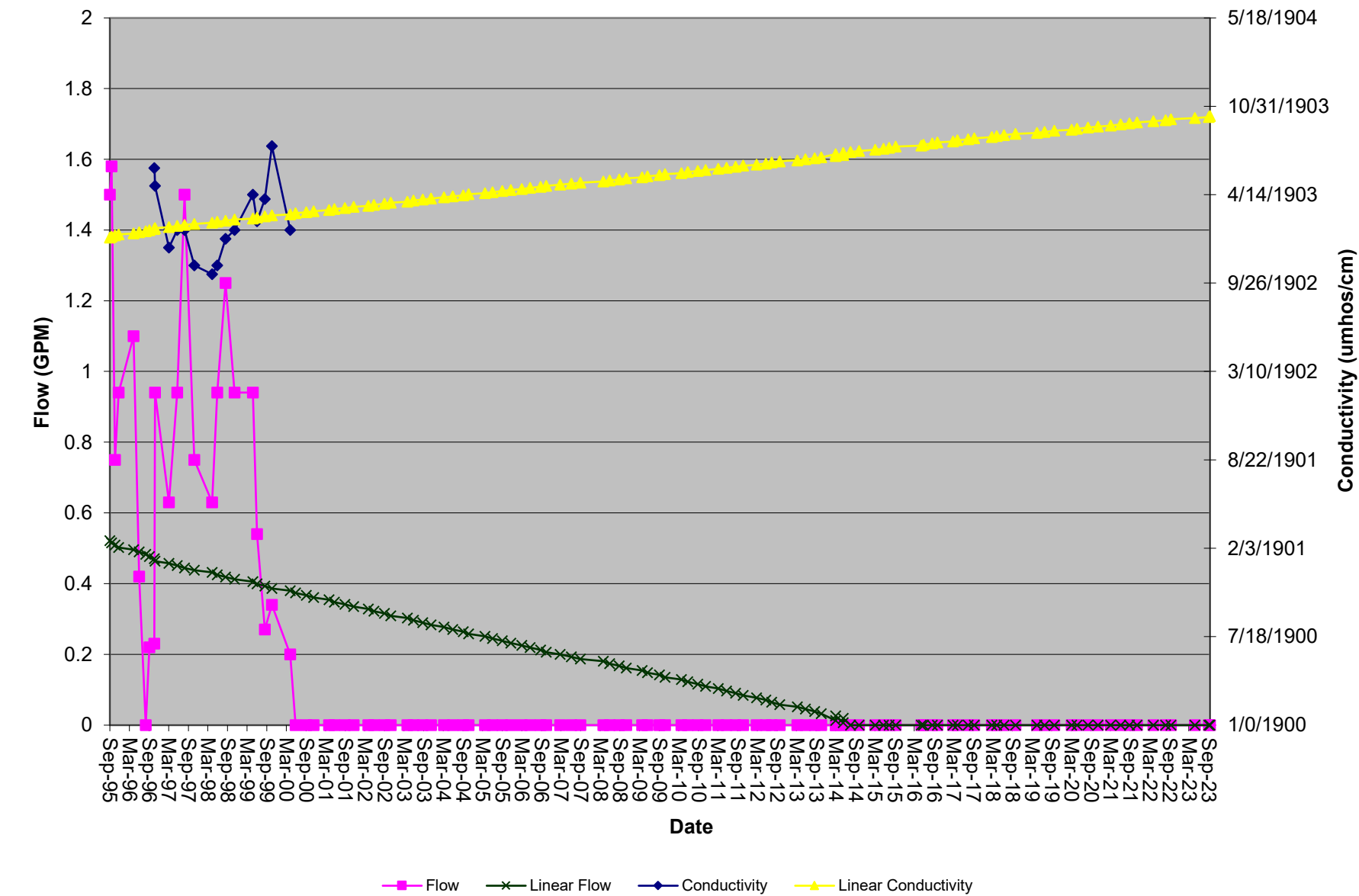
Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	GPM	0.00	0.15	5.00	0.00	0.05	3.75	0	0	0	
FieldComment								Dry	Dry	Damp	*
ph	su				7.7	7.7	7.7				
Conductivity	umhos/cm				200	200	200				
Temperature	Celsius				11.2	11.2	11.2				
Lab Parameters	UNITS										
Bicarbonate	mg/L										
Chloride	mg/L										
Conductivity	umhos/cm										
Hardness	mg/L										
Nitrate-Nitrite	mg/L										
Oil and Grease	mg/L										
pH	su										
Phosphate	mg/L										
ResidueFilterable-TDS	mg/L										
ResidueNonFilterable-TSS	mg/L										
SAR											
Sulfate	mg/L										
Aluminum	mg/L										
Arsenic	mg/L										
Cadmium	mg/L										
Calcium	mg/L										
Copper	mg/L										
Iron (Total)	mg/L										
Lead	mg/L										
Magnesium	mg/L										
Manganese (Total)	mg/L										
Mercury	mg/L										
Molybdenum	mg/L										
Selenium	mg/L										
Sodium	mg/L										
Zinc	mg/L										

* 1Q 2022 site inaccessible

The monitoring point for Upper Stevens Draw is located in Stevens Draw, just below Spring 11. It is accessed by the Stevens Draw road.

Baseline Information for Point Steph-up is derived from events beginning 7/12/95 through 7/1/02.
Point influenced by mining on 7/1/02.

Plot of Flow and Conductivity



Steph-low - Stevens Draw Drainage system

Figure 85

SW-01
West Terror Creek - Downstream
Elevation - 7140

Initiated	10/24/2013	10/24/2013	10/24/2013	10/24/2013
Activated				
Date	11/23/2023	9/7/2023	6/1/2023	

Field Parameters	UNITS	Summary Information			Operation						
		Baseline	Baseline	Baseline	Baseline	Baseline	Baseline				
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	0.01	3.72	52.00				1.39	2.32	19.17	
Water Level in Flume	Feet	0.025	0.613	2.800				0.5	0.7	2.8	
Temperature	Celsius	0	6.8	20.2				0.8	13.2	5.1	
Conductivity	umhos/cm	8.23	137	340				173	121	67	
pH	su	0.7	8.1	10.6				8.3	8.5	7.9	
Field Comments											*
Lab Parameters	UNITS										
		Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline
Bicarbonate	mg/L	32	66.8	90.6				75.3		32	
Chloride	mg/L	0.56	1.01	3.51				<MDL		3.51	
Conductivity	umhos/cm	65	107	148				148		65	
Hardness	mg/L	30	52.76	69.90				65		30	
Acidity	mg/L	-76	-54.44	-25.00				<MDL		<MDL	
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL				<MDL		0.022	
Oil and Grease	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	
Phosphate	mg/L	0.017	0.07	0.24				0.0682		0.0868	
ResidueFilterable-TDS	mg/L	74	99	144				92		80	
ResidueNonFilterable-TSS	mg/L	<MDL	13	34				<MDL		20	
SAR		0.210	0.318	0.505				0.37		0.21	
Sulfate	mg/L	1.4	7.4	82.0				1.4		<MDL	
Aluminum (TREC)	mg/L	<MDL	6.664	101.000				0.117		2.14	
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL				0.00027		0.00039	
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	
Calcium (TREC)	mg/L	7.4	13.8	18.0				16.5		7.4	
Calcium (Dissolved)	mg/L	1.2	13.9	18.2							
Copper (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	
Iron (Dissolved)	mg/L	0.0310	3.3037	41.6000				<MDL		0.111	
Iron (TREC)	mg/L	0.074	0.900	9.000				0.2		1.7	
Lead (TREC)	mg/L	<MDL	<MDL	<MDL				0.00015		0.00058	
Magnesium (TREC)	mg/L	0.10	4.34	6.07				5.83		2.7	
Magnesium (Dissolved)	mg/L	0.89	4.72	6.09							
Manganese (TREC)	mg/L	0.0003	0.0139	0.0334				<MDL		0.022	
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	
Selenium (TREC)	mg/L	<MDL	0.00	0.01				<MDL		0.00014	
Sodium (TREC)	mg/L	2.57	5.39	8.50				6.8		2.57	
Sodium (Dissolved)	mg/L	3.48	5.78	8.66							
Zinc (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL	

The area of concern for monitoring point SW-01 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Negative acidity value indicates equivalent value of alkalinity

SW-02
Terror Creek - Mid Stream
Elevation - 7040

Initiated	10/24/2013	10/24/2013	10/24/2013	10/24/2013
Activated				
Date	11/13/2023	9/7/2023	6/1/2023	

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	CFS	0.00	6.17	95.37				2.394	51.587	
Water Level in Flume	Feet	0.00	0.38	3.10				0.300	2.100	
Temperature	Celsius	-0.7	9.1	20.3				8.9	14	6.3
Conductivity	umhos/cm	2.9	125	334				218	119.4	8.17
pH	su	5.3	8.2	10.2				8.59	8.5	8.17
Field Comments										*

Lab Parameters										
UNITS										
Bicarbonate	mg/L	38	82	148				104	42.7	
Chloride	mg/L	0.57	23.42	198.50				<MDL	1.03	
Conductivity	umhos/cm	65.4	177	548				170	83	
Hardness	mg/L	29.02	69.94	157.58				63	37	
Nitrate-Nitrite	mg/L	<MDL	0.22	0.61				<MDL	<MDL	
Oil and Grease	mg/L	<MDL	<MDL	<MDL				<MDL	<MDL	
pH	su	6.7	7.7	8.8				8.1	8	
Phosphate	mg/L	<MDL	0.56	7.79				0.0558	0.039	
ResidueFilterable-TDS	mg/L	70	143	430				114	80	
ResidueNonFilterable-TSS	mg/L	<MDL	23	86				<MDL	17	
SAR		0.11	0.47	2.22				0.34	0.28	
Sulfate	mg/L	1.60	9.57	31.00				1.6	<MDL	
Aluminum (TREC)	mg/L	<MDL	18.909	400.000				0.221	1.53	
Arsenic (TREC)	mg/L	<MDL	0.015	0.075				0.00034	0.0003	
Cadmium (TREC)	mg/L	<MDL	0.008	0.020				<MDL	<MDL	
Calcium (TREC)	mg/L	5.42	17.36	42.00				15.6	9.18	
Copper (TREC)	mg/L	<MDL	0.004	0.010				<MDL	<MDL	
Iron (TREC)	mg/L	0.033	0.631	1.470				0.289	1.14	
Lead (TREC)	mg/L	<MDL	0.009	0.050				0.00015	0.00038	
Magnesium (TREC)	mg/L	3.24	7.98	18.10				5.78	3.47	
Manganese (TREC)	mg/L	0.01	0.03	0.05				<MDL	0.018	
Mercury (TREC)	mg/L	<MDL	0.00006	0.00016				<MDL	<MDL	
Molybdenum (TREC)	mg/L	<MDL	0.004	0.006				<MDL	<MDL	
Selenium (TREC)	mg/L	<MDL	0.00429	0.02300				<MDL	0.00015	
Sodium (TREC)	mg/L	3.5	12.3	64.0				6.16	3.89	
Zinc (TREC)	mg/L	<MDL	0.027	0.060				<MDL	<MDL	

The area of concern for monitoring point SW-02 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

SW-02 is located on the East Fork of Terror Creek in the NW1/4 SE1/4 Sec 5, T13S, R91W, of the 6th P.M. A 48" Parshall flume manufactured by the Thompson Pipe and Steel Company of Denver, Colorado was installed at this location.

* Site not accessible

SW-05
Stevens Gulch - Downstream
Elevation - 6600

Initiated	1/1/1983	1/1/1983	1/1/1983	1/1/1983
Activated				
Date	11/14/2023	9/28/2023	5/30/2023	3/27/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	CFS	0.00	1.25	16.94					1.37	6.86
Water Level in Flume	Feet	0.00	0.09	1.06					0.25	0.7
Temperature	Celsius	-0.5	10.3	23.7					10.5	2.2
Conductivity	umhos/cm	0	563	2000					481	228
pH	su	0.0	8.3	9.9					8.42	8.52
Field Comments								Dry	Dry	

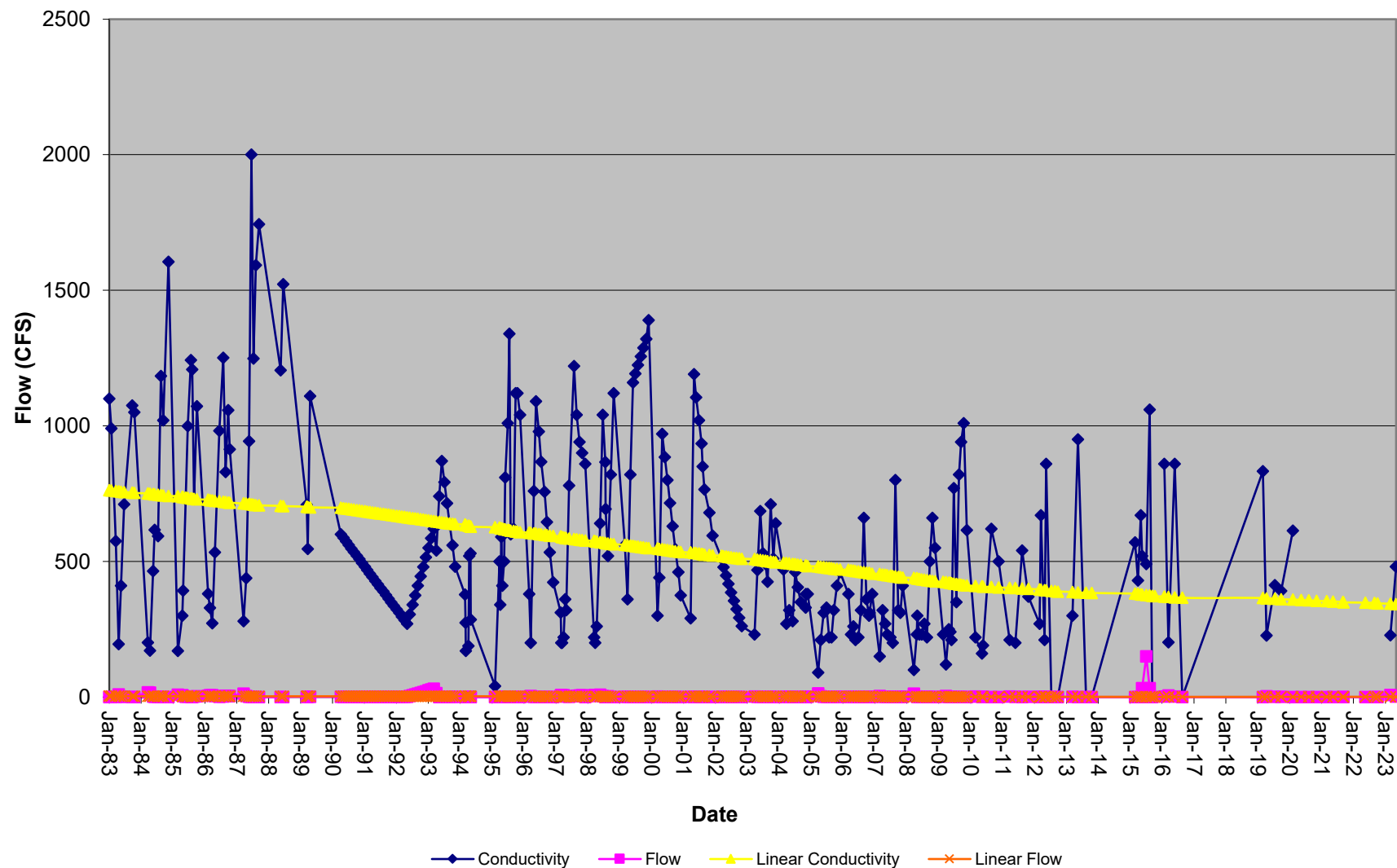
Lab Parameters	UNITS									
Bicarbonate	mg/L	66	216	456						188
Chloride	mg/L	<MDL	21.21	223.41						7.72
Conductivity	umhos/cm	149	564	1560						433
Hardness	mg/L	35.6	240.8	625.7						184
Nitrate-Nitrite	mg/L	<MDL	0.34	0.88						<MDL
Oil and Grease	mg/L	<MDL	<MDL	<MDL						<MDL
pH	su	6.8	8.1	8.7						8.3
Phosphate	mg/L	<MDL	0.19	0.47						0.3
ResidueFilterable-TDS	mg/L	106	377	1130						274
ResidueNonFilterable-TSS	mg/L	<MDL	35	438						<MDL
SAR		0.23	1.03	2.06						0.79
Sulfate	mg/L	<MDL	91.9	450.0						39.1
Aluminum (TREC)	mg/L	0.022	0.270	0.530						0.11
Arsenic (TREC)	mg/L	<MDL	0.017	0.040						0.0006
Cadmium (TREC)	mg/L	<MDL	0.007	0.010						<MDL
Calcium (TREC)	mg/L	8.81	48.77	103.00						45.5
Copper (TREC)	mg/L	<MDL	0.008	0.020						<MDL
Iron (TREC)	mg/L	0.03	0.36	1.46						0.116
Lead (TREC)	mg/L	0.00	0.02	0.04						0.00012
Magnesium (TREC)	mg/L	7.10	25.60	61.20						17.2
Manganese (TREC)	mg/L	0.01	0.52	7.30						<MDL
Mercury (TREC)	mg/L	0.00002	0.00011	0.00027						<MDL
Molybdenum (TREC)	mg/L	0.002	0.006	0.015						<MDL
Selenium (TREC)	mg/L	<MDL	0.006	0.018						0.00026
Sodium (TREC)	mg/L	9.60	32.08	64.00						24.4
Zinc (TREC)	mg/L	0.005	0.009	0.020						<MDL

The area of concern for monitoring point SW-05 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

* Site not accessible

The Stevens Gulch stream gauge, SW-05, is located near Bowie No. 1 mine's timber storage area in the NE1/4NW1/4, Sec 25, T13S, R92W, of the 6th P.M. A 36" Parshall flume was installed at this locations.

Plot of Flow and Conductivity



SW-10
Terror Ditch
Elevation - 6480

Initiated	7/1/1983	7/1/1983	7/1/1983	7/1/1983
Activated				
Date	11/13/2023	8/31/2023	6/12/2023	

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	CFS	0.00	3.18	12.80				0.09	7.06	
Water Level in Flume	Feet	0.00	0.43	0.87				0.05	0.8	
Temperature	Celsius	0.1	9.1	21.3				0.9	14.1	10.8
Conductivity	umhos/cm	20	138	970				220	109	91.9
pH	su	5.6	8.3	12.2				8.49	8.68	7.9
Field Comments										*

Lab										
Parameters	UNITS									
Bicarbonate	mg/L	25.3	79.0	188.0				85		42.3
Chloride	mg/L	<MDL	17.4	186.1				<MDL		<MDL
Conductivity	umhos/cm	53	169	756				164		80
Hardness	mg/L	32	65	141				71		36
Nitrate-Nitrite	mg/L	<MDL	0.17	0.54				<MDL		<MDL
Oil and Grease	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
pH	su	6.9	7.7	8.5				8		8.1
Phosphate	mg/L	<MDL	<MDL	<MDL				0.0527		0.0744
ResidueFilterable-TDS	mg/L	50	128	610				100		82
ResidueNonFilterable-TSS	mg/L	<MDL	23.5	136.0				8		11
SAR		0.11	0.61	6.43				0.4		0.27
Sulfate	mg/L	<MDL	11.31	68.50				2.4		<MDL
Aluminum (TREC)	mg/L	<MDL	14.585	154.000				0.158		1.33
Arsenic (TREC)	mg/L	<MDL	0.008	0.030				0.00031		0.00031
Cadmium (TREC)	mg/L	<MDL	0.010	0.022				<MDL		<MDL
Copper (TREC)	mg/L	<MDL	0.006	0.010				<MDL		<MDL
Calcium (TREC)	mg/L	6.07	15.49	22.00				17.8		9.04
Iron (TREC)	mg/L	0.014	0.482	1.730				0.258		0.996
Lead (TREC)	mg/L	0.000	0.011	0.060				0.00026		0.00082
Magnesium (TREC)	mg/L	3.00	7.52	21.00				6.35		3.24
Manganese (TREC)	mg/L	0.010	0.021	0.072				<MDL		<MDL
Mercury (TREC)	mg/L	<MDL	0.00007	0.00020				<MDL		<MDL
Molybdenum (TREC)	mg/L	<MDL	0.0022	0.0060				<MDL		<MDL
Selenium (TREC)	mg/L	<MDL	0.004	0.018				<MDL		0.00012
Sodium (TREC)	mg/L	3.64	16.43	144.00				7.6		3.66
Zinc (TREC)	mg/L	<MDL	0.014	0.050				<MDL		<MDL

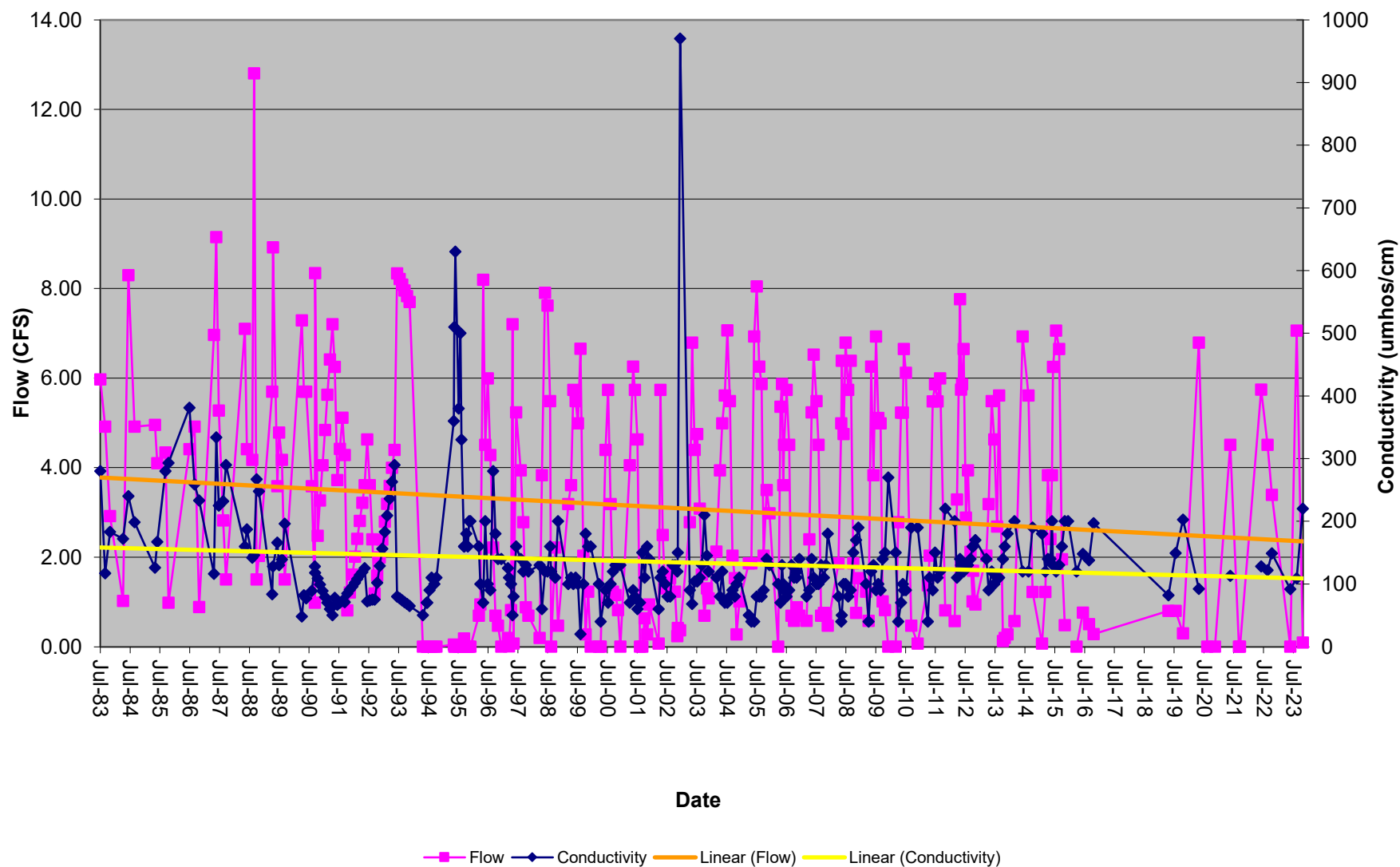
The area of concern for monitoring point SW-10 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

A stilling well and recorder were installed on a 30" Parshall flume on the Terror Ditch. This stream gauge is located in the NE1/4NE1/4, Sec 17, T13S, R91W o

* 1Q inaccessible due to snow

*** No data in the field notes

Plot of Flow and Conductivity



SW-11
Stevens Gulch - Upstream
Elevation - 8084

Initiated	6/6/2010	6/6/2010	6/6/2010	6/6/2010
Activated				
Date	11/14/2023	9/28/2023	6/12/2023	

Summary Information

Field Parameters	UNITS	Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Flow	CFS	0	0.1	3.8							
Water Level in Flume	Feet	0	0.0	0.0							
Temperature	Celsius										
Conductivity	umhos/cm										
pH	su										
Field Comments								Dry	Dry	Dry	Dry
Lab Parameters	UNITS										
		Min	Ave	Max	Min	Ave	Max				
Bicarbonate	mg/L	55.9	63.6	71.3				*			
Carbonate	mg/L	0.0	0.0	0.0							
Chloride	mg/L	<MDL	2.8	3.0							
Conductivity	umhos/cm	98.7	107	116							
Hardness	mg/L	43.60	48.45	53.30							
Acidity	mg/L	-46.7	-42.35	-38.00							
Nitrate-Nitrite	mg/L	<MDL	0.00	0.00							
Oil and Grease	mg/L	<MDL	<MDL	<MDL							
pH	su	7.2	7.4	7.7							
Phosphate	mg/L	<MDL	0.12	0.13							
ResidueFilterable-TDS	mg/L	117	119	120							
ResidueNonFilterable-TSS	mg/L	<MDL	22	24							
SAR		0.37	0.39	0.40							
Aluminum (TREC)	mg/L	0.549	0.725	0.900							
Arsenic (TREC)	mg/L	<MDL	<MDL	0.000							
Cadmium (TREC)	mg/L	<MDL	<MDL	0.00							
Calcium (TREC)	mg/L	12.6	13.90	15.20							
Calcium (Dissolved)	mg/L	0	0.00	0.00							
Copper (TREC)	mg/L	<MDL	<MDL	0.00							
Iron (Dissolved)	mg/L	0.24	0.24	0.24							
Iron (TREC)	mg/L	0.42	0.82	1.23							
Lead (TREC)	mg/L	<MDL	<MDL	0.00							
Magnesium (TREC)	mg/L	2.94	3.34	3.73							
Manganese (TREC)	mg/L	0.03	0.06	0.08							
Mercury (TREC)	mg/L	<MDL	<MDL	0							
Molybdenum (TREC)	mg/L	<MDL	<MDL	0.000							
Selenium (TREC)	mg/L	<MDL	<MDL	0.000							
Sodium (TREC)	mg/L	5.65	5.80	5.94							
Sodium (Dissolved)	mg/L	0	0.00	0.00							
Zinc (TREC)	mg/L	<MDL	<MDL	0.00							

* Site not accessible

SW-12
West Fork Terror Creek - Upstream
Elevation - 7920

Initiated	5/16/1983	5/16/1983	5/16/1983	5/16/1983
Activated				
Date	11/14/2023	9/28/2023	6/12/2023	

Summary Information										
Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Flow	CFS	0.04	4.53	52.00				32.99	1.39	10.62
Water Level in Flume	Feet	0.050	0.728	4.000				4	0.5	1.9
Temperature	Celsius	0.1	6.3	14.9				2.4	6.9	5.8
Conductivity	umhos/cm	68.8	117	180				135.2	123.7	69.8
pH	su	7.24	8.2	8.9				7.9	8.1	8.1
Field Comments										*
Lab Parameters	UNITS									
		Min	Ave	Max	Min	Ave	Max			
Bicarbonate	mg/L	33.8	58.3	83.4				63.4		33.8
Chloride	mg/L	<MDL	0.75	1.40				<MDL		<MDL
Conductivity	umhos/cm	53.5	89.9	121.0				120		61
Hardness	mg/L	27.3	45.7	61.9				56		29
Acidity	mg/L	-64.0	-46.4	-20.0				<MDL		<MDL
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Oil and Grease	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Phosphate	mg/L	<MDL	0.04	0.12				0.0889		0.0775
ResidueFilterable-TDS	mg/L	65	86	108				98.0		72.0
ResidueNonFilterable-TSS	mg/L	<MDL	15.2	37.0				<MDL		<MDL
SAR		0.174	0.260	0.486				0.29		0.18
Sulfate	mg/L	1.2	2.4	3.3				<MDL		<MDL
Aluminum (TREC)	mg/L	0.101	0.616	1.710				0.101		1.02
Arsenic (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		0.00022
Cadmium (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Calcium (TREC)	mg/L	7.1	442.5	8630.0				14.2		7.31
Calcium (Dissolved)	mg/L	11.2	13.3	14.6						
Copper (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Iron (Dissolved)	mg/L	0.0300	2.7335	#####				<MDL		0.124
Iron (TREC)	mg/L	0.101	0.498	1.370				0.134		0.691
Lead (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		0.00049
Magnesium (TREC)	mg/L	2.35	3.96	5.58				5.06		2.56
Magnesium (Dissolved)	mg/L	3.38	4.53	5.21						
Manganese (TREC)	mg/L	0.0011	0.0116	0.03				<MDL		<MDL
Mercury (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Molybdenum (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL
Selenium (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		0.00011
Sodium (TREC)	mg/L	2.19	4.06	7.77				4.91		2.19
Sodium (Dissolved)	mg/L	2.69	4.22	5.97						
Zinc (TREC)	mg/L	<MDL	<MDL	<MDL				<MDL		<MDL

The area of concern for monitoring point SW-12 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Negative acidity value indicates equivalent value of alkalinity

*Inaccessible due to snow

** Flow to high unable to read gauge

DH-15a
Stevens Draw - Drill Hole
Pipe Elevation - 7143.3
Pipe 1.8' above ground
Depth - 215'

Initiated	6/12/1995	6/12/1995
Activated		
Date	5/25/2023	

Field Parameters	UNITS	Summary Information			Operation				
		Baseline	Min	Ave	Max	Min	Ave	Max	
Static Water Level	Feet					179.10	190.85	194.80	179.1
Water Elevation	Feet					6948.50	6952.45	6964.20	6964.2
FieldComment									*
ph	su					7.06	7.49	8.00	7.5
Conductivity	umhos/cm					2880.00	3836.84	4210.00	3370
Temperature	Celsius					7.77	13.26	16.20	14.5
Lab Parameters	UNITS								
Bicarbonate	mg/L					897.00	1111.90	1380.00	989
Carbonate	mg/L					<MDL	<MDL	0.00	<MDL
Chloride	mg/L					9.71	33.70	39.30	9.71
Conductivity	umhos/cm					2740.00	3574.00	3970.00	3200
Hardness	mg/L					323.00	732.20	942.00	505
Nitrate-Nitrite	mg/L					<MDL	<MDL	0.46	0.457
Ammonia	mg/L					0.17	0.85	1.26	0.169
pH	su					7.35	7.84	8.10	8.1
Phosphate	mg/L					0.02	0.08	0.13	0.022
ResidueFilterable-TDS	mg/L					1980.00	2744.00	3140.00	2310
Sulfate	mg/L					556.00	1207.00	1500.00	903
Arsenic (Dissolved)	mg/L					<MDL	<MDL	0.05	0.00455
Cadmium (Dissolved)	mg/L					<MDL	<MDL	0.00	0.000051
Calcium (Dissolved)	mg/L					50.20	128.71	167.00	113.0
Iron (Dissolved)	mg/L					<MDL	<MDL	0.20	0.193
Iron (TREC)	mg/L					0.39	6.23	53.90	1.88
Magnesium (Dissolved)	mg/L					43.10	99.28	130.00	54.2
Manganese (Dissolved)	mg/L					0.08	0.14	0.17	0.077
Manganese (TREC)	mg/L					0.09	0.17	0.23	0.09
Mercury (Dissolved)	mg/L					<MDL	<MDL	0.00	<MDL
Selenium (Dissolved)	mg/L					<MDL	<MDL	0.16	0.158
Sodium (Dissolved)	mg/L					547.00	657.40	771.00	624
Zinc (Dissolved)	mg/L					<MDL	<MDL	0.00	<MDL

DH-15a is a replacment well for DH-15. All data is considered operational.

* Site not accessible

Drill Hole 15a is located on the western edge of the Stevens Draw road.

DH-39
Stevens Draw - Drill Hole
Pipe Elevation - 7142.65
Pipe 1.2' above ground
Depth - 181'

Initiated	6/12/1995	6/12/1995
Activated		
Date	5/23/2023	

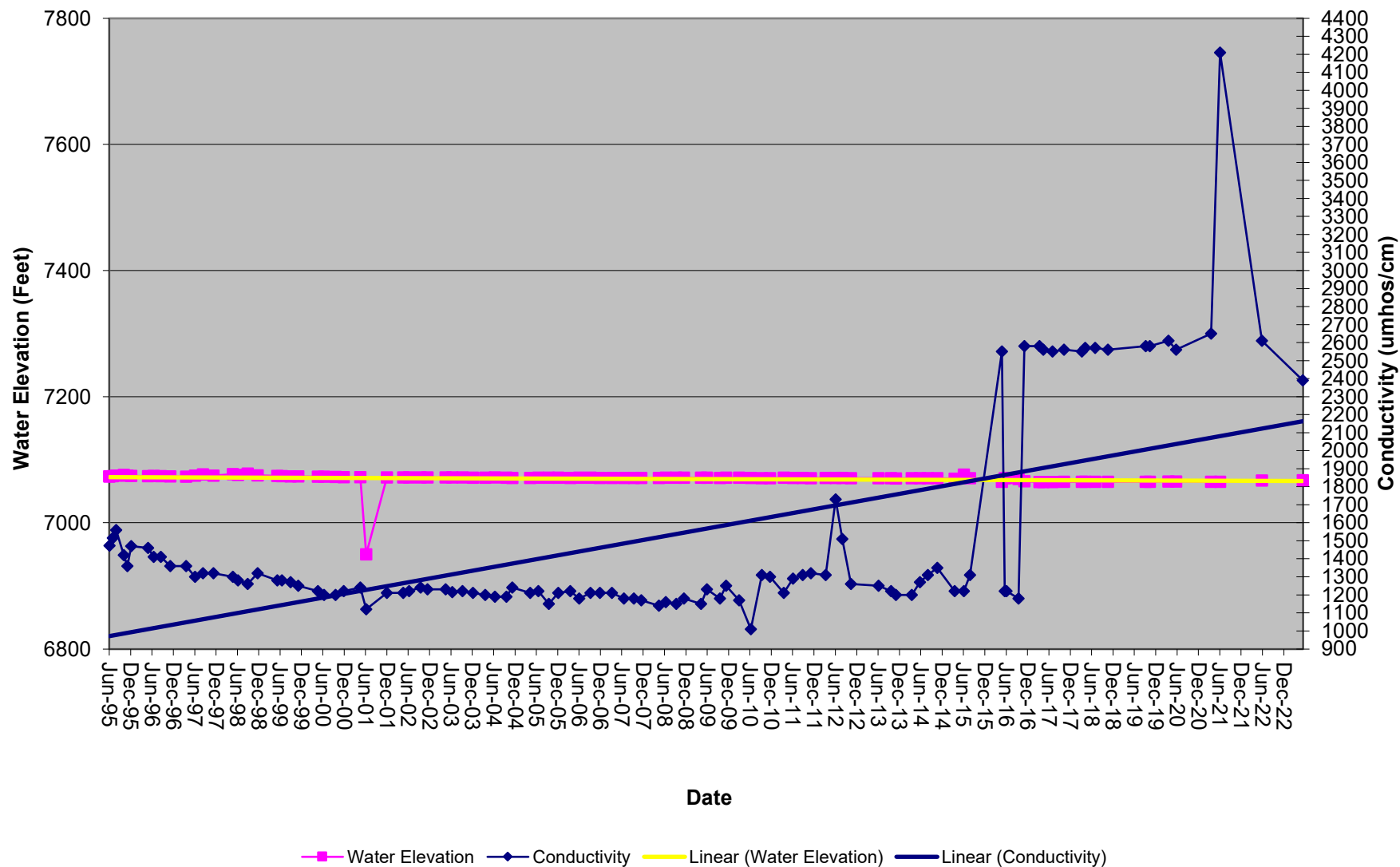
Summary Information									
Field Parameters	UNITS	Baseline			Operation				
		Min	Ave	Max	Min	Ave	Max		
Static Water Level	Feet	64.55	73.83	192.55				75.2	
Water Elevation	Feet	6950.1	7068.8	7078.1				7067.45	
FieldComment									*
ph	su	6.8	7.3	8.3				7.69	
Conductivity	umhos/cm	1010	1512	4210				2390	
Temperature	Celsius	4.3	10.5	14.3				12.8	
Lab Parameters									
Lab Parameters	UNITS	Baseline			Operation				
		Min	Ave	Max	Min	Ave	Max		
Bicarbonate	mg/L	384.69	573.06	897.00				855	
Carbonate	mg/L	<MDL	2.86	25.00				<MDL	
Chloride	mg/L	1.36	18.77	47.14				20.5	
Conductivity	umhos/cm	1025	1601	3970				2220	
Hardness	mg/L	<MDL	438.06	940.00				465	
Nitrate-Nitrite	mg/L	<MDL	0.73	7.06				0.036	
Ammonia	mg/L	<MDL	0.68	10.20				10.2	
pH	su	7.0	7.6	8.5				8.2	
Phosphate	mg/L	<MDL	0.26	3.66				3.66	
ResidueFilterable-TDS	mg/L	443	1093	3140				1470	
Sulfate	mg/L	101.25	302.17	1500.00				447	
Arsenic (Dissolved)	mg/L	<MDL	0.0106	0.1730				0.00074	
Cadmium (Dissolved)	mg/L	<MDL	0.007	0.035				0.00005	
Calcium (Dissolved)	mg/L	6.5	86.2	167.0				91.7	
Iron (Dissolved)	mg/L	<MDL	0.67	13.00				0.308	
Iron (TREC)	mg/L	0.01	9.89	43.70				0.939	
Magnesium (Dissolved)	mg/L	<MDL	61.8	146.0				57.4	
Manganese (Dissolved)	mg/L	<MDL	1.326	60.100				0.325	
Manganese (TREC)	mg/L	0.026	0.402	2.470				0.325	
Mercury (Dissolved)	mg/L	<MDL	0.000264	0.00550				<MDL	
Selenium (Dissolved)	mg/L	<MDL	0.006	0.021				0.0121	
Sodium (Dissolved)	mg/L	95.8	227.3	670.0				384	
Zinc (Dissolved)	mg/L	<MDL	0.02	0.19				0.187	

The area of concern for monitoring point DH-39 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Drill Hole 39 is located in Stevens Draw right next to Drill Hole 15. It is accessed by the Stevens Draw road.

* Site not accessible

Plot of Conductivity and Water Level



DH-49
B Gulch - Drill Hole
Pipe Elevation - 7203.4
Pipe 0.7' above ground
Depth - 324'

Initiated	6/12/1995	6/12/1995
Activated	3/30/1997	3/30/1997
Date	5/25/2023	

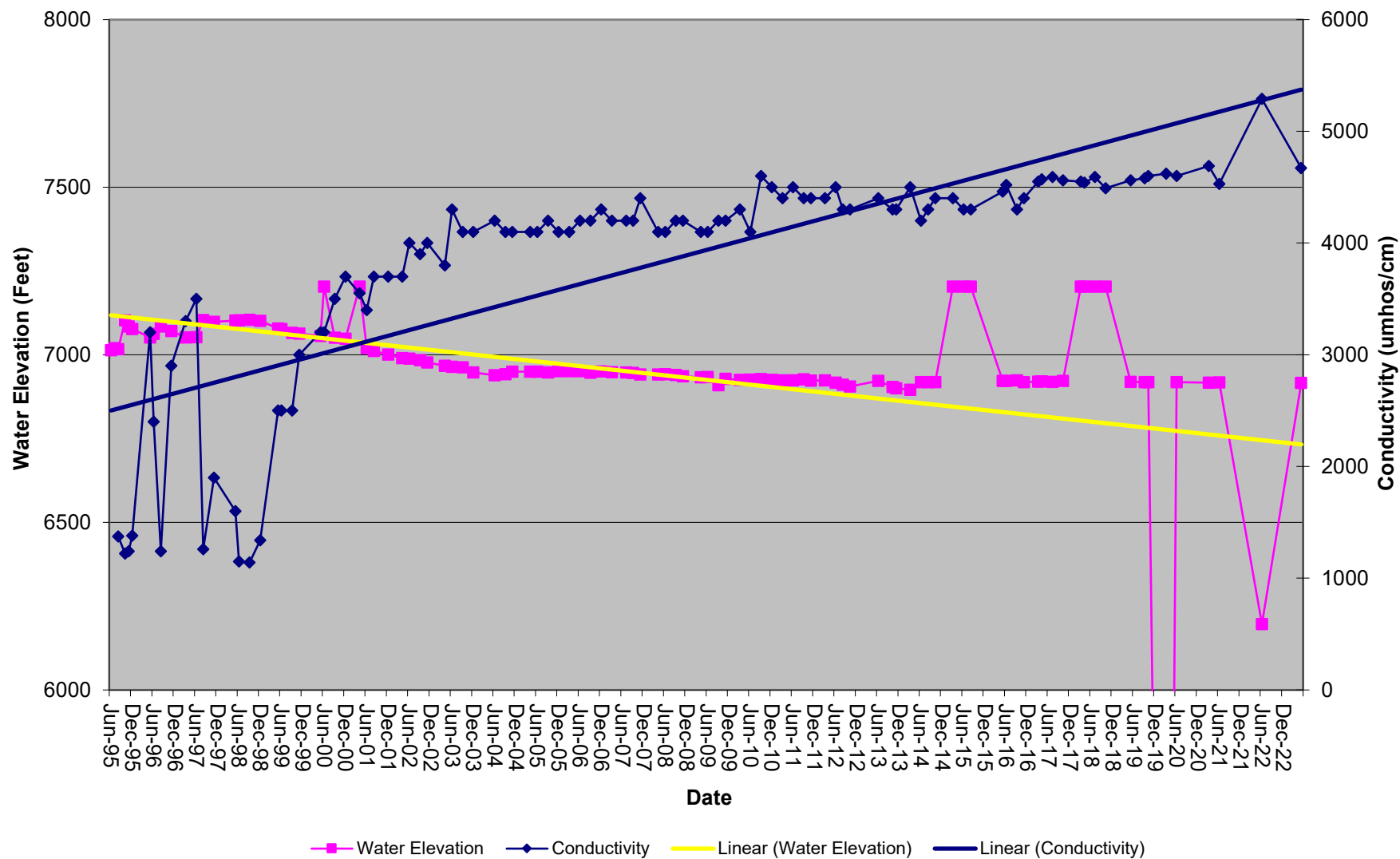
Summary Information

Field Parameters	UNITS	Baseline			Operation				
		Min	Ave	Max	Min	Ave	Max		
Static Water Level	Feet	100.84	145.8	189.79	99.57	246.2316	311.46	287.5	
Water Elevation	Feet	7013.6	7057.6	7102.6	6891.9	6957.2	7103.8	6915.9	
FieldComment									*
ph	su	7.1	7.3	7.5	6.9	7.4	8.2	7.71	
Conductivity	umhos/cm	1220	2028	3300	1140	3994	5290	4670	
Temperature	Celsius	10	11.9	13.5	10.8	13.8	17.3	15.5	
Lab Parameters	UNITS								
Bicarbonate	mg/L	496	834	1090	313.4	1479.578	2130	1910	
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	10.98	79.46	34	
Chloride	mg/L	14	15	16	<MDL	37.7	344.61	19	
Conductivity	umhos/cm	1250	2023	2470	1160	3714.098	5920	4440	
Hardness	mg/L	34	300	491	<MDL	187	463	160	
Nitrate-Nitrite	mg/L	0.63	1.0	1.43	0.028	4.94	8.9	7.56	
Ammonia	mg/L	0.14	1.9	3.8	<MDL	1.15	5	<MDL	
pH	su	7.1	7.4	7.7	7.2	7.8	8.7	8.3	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.73	21.3	0.23	
ResidueFilterable (TDS)	mg/L	790	1347	1790	700	2674	3411	3130	
Sulfate	mg/L	216	362	470	180	646.88	828	737	
Arsenic (Dissolved)	mg/L	<MDL	0.001	0.002	<MDL	0.042	0.560	0.0015	
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.011	0.040	<MDL	
Calcium (Dissolved)	mg/L	11	62	100	0.55	33.5	98.4	26.4	
Iron (Dissolved)	mg/L	0.05	0.4	1.1	<MDL	0.138	1.12	0.169	
Iron (TREC)	mg/L	0.2	12.4	29.4	0.0186	31.27	1310	4.13	
Magnesium (Dissolved)	mg/L	1.6	35.1	58.6	18.7	30.4	71.5	22.9	
Manganese (Dissolved)	mg/L	<MDL	0.038	0.105	<MDL	0.065	0.35	<MDL	
Manganese (TREC)	mg/L	0.007	0.19	0.308	<MDL	2.04	68.7	0.127	
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00008	0.00050	<MDL	
Selenium (Dissolved)	mg/L	<MDL	0.003	0.007	<MDL	0.032441	0.283	0.00024	
Sodium (Dissolved)	mg/L	5.2	230.7	556	109	916	2070	1120	
Zinc (Dissolved)	mg/L	<MDL	0.003	0.01	<MDL	0.018	0.04	<MDL	

* Site not Accessible

Drill Hole 49 is located just above Stevens Draw road approximately 1000 feet southwest of the mine portals. It is accessed by the Stevens Draw road.

Plot of Conductivity and Water Level



DH-67B
Hubbard Creek - B Seam Monitoring Well
Elevation - 6451
Depth - 594'

Initiated	6/29/2004
Activated	
Date	6/28/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation			
		Min	Ave	Max	Min	Ave	Max	
Static Water Level	Feet	146.9	264.5	498.4				
Water Elevation	Feet	5952.6	6190.1	6451.0				
FieldComment								Plugged
ph	su	6.5	7.8	8.8				
Conductivity	umhos/cm	2570	6209.4	7500				
Temperature	Celsius	13.4	18.7	26.5				
Lab Parameters	UNITS							
Bicarbonate	mg/L	1486.3	2992.5	3838.0				
Carbonate	mg/L	<MDL	159.57	725.4				
Chloride	mg/L	3.92	347.28	509				
Conductivity	umhos/cm	497	5477	7810				
Hardness	mg/L	3.59	42.21	198				
Nitrate-Nitrite	mg/L	<MDL	1.80	7.4				
Ammonia	mg/L	0.102	4.39	9.48				
pH	su	7.35	8.12	9.37				
Phosphate	mg/L	<MDL	0.58	5.96				
ResidueFilterable-TDS	mg/L	2186	4041	8131				
Sulfate	mg/L	<MDL	16.82	91.58				
Arsenic (Dissolved)	mg/L	<MDL	0.106	0.545				
Cadmium (Dissolved)	mg/L	<MDL	0.027	0.07				
Calcium (Dissolved)	mg/L	0.24	9.36	53.7				
Iron (Dissolved)	mg/L	0.01	0.25	0.903				
Iron (TREC)	mg/L	0.011	2.82	31.8				
Magnesium (Dissolved)	mg/L	0.73	4.58	29.9				
Manganese (Dissolved)	mg/L	<MDL	0.024	0.102				
Manganese (TREC)	mg/L	0.009	0.104	1.129				
Mercury (Dissolved)	mg/L	<MDL	0.00009	0.00044				
Selenium (Dissolved)	mg/L	0.003	0.152	1.595				
Sodium (Dissolved)	mg/L	3.885	1426.8	2291.2				
Zinc (Dissolved)	mg/L	<MDL	0.06	0.4				

The area of concern for monitoring point DH-67B has not been affected by the mining operation. Therefore, monitoring events are considered Baseline.

*Site inaccessible due to snow for 1Q

Note 1: Sample taken in field apparently lost by laboratory.

Note 2: Special bailer for this well broke, could not get sample.

* Site not accessible 1Q due to snow

DH-67D (Reb)
Hubbard Creek - D - Seam Monitoring Well
Elevation - 6450'
Depth - 324.8'

Initiated	11/30/2000
Activated	
Date	6/28/2023

Summary Information								
Field Parameters	UNITS	Baseline			Operation			
		Min	Ave	Max	Min	Ave	Max	
Static Water Level	Feet	123.4	222.823	253.85				246.3
Water Elevation	Feet	6196.2	6227.2	6326.6				6203.7
FieldComment								*
ph	su	7.9	9.3	10.6				8.39
Conductivity	umhos/cm	6.96	6221	8780				6990
Temperature	Celsius	11.2	16.4	19.3				18.5
Lab Parameters								
UNITS								
Bicarbonate	mg/L	<MDL	2829.11	4320				3290
Carbonate	mg/L	<MDL	359.039	1160				120
Chloride	mg/L	6.76	396.239	610				417
Conductivity	umhos/cm	2908	5864.12	13132				6770
Hardness	mg/L	<MDL	19.46	51.55				28
Nitrate-Nitrite	mg/L	<MDL	5.449	60.03				<MDL
Ammonia	mg/L	0.188	4.806	30.5				3.17
pH	su	7.61	8.90	9.63				8.7
Phosphate	mg/L	<MDL	2.053	48.2				0.55
ResidueFilterable-TDS	mg/L	0.15	3936	5188				4400
Sulfate	mg/L	<MDL	31.19	300				<MDL
Arsenic (Dissolved)	mg/L	<MDL	0.15034	0.915				0.00641
Cadmium (Dissolved)	mg/L	<MDL	0.714	16.6				0.000204
Calcium (Dissolved)	mg/L	<MDL	4.73	36.7				6.7
Iron (Dissolved)	mg/L	0.01	0.40	7.27				0.378
Iron (TREC)	mg/L	0.0251	3.22	99.3				0.655
Magnesium (Dissolved)	mg/L	<MDL	2.37	10.2				2.73
Manganese (Dissolved)	mg/L	<MDL	0.035	0.417				<MDL
Manganese (TREC)	mg/L	<MDL	0.866	22.7				<MDL
Mercury (Dissolved)	mg/L	<MDL	0.00009	0.00042				<MDL
Selenium (Dissolved)	mg/L	<MDL	0.15096	1.064				<MDL
Sodium (Dissolved)	mg/L	784	1621.33	3576.25				1710
Zinc (Dissolved)	mg/L	0.006	0.043	0.206				<MDL

The area of concern for monitoring point DH-67D has not been affected by the mining operation. Therefore, all monitoring events are considered Baseline.

*Site inaccessible due to snow for 1Q

DH-67abv
Hubbard Creek - Monitoring Well
Elevation - 6450.5
Depth - 193'

Initiated	6/26/2005
Activated	
Date	6/16/2022

		Summary Information						
Field Parameters	UNITS	Baseline			Operation			
		Min	Ave	Max	Min	Ave	Max	
Static Water Level	Feet	29.5	44.2	59.7				42.4
Water Elevation	Feet	6390.8	6406.5	6421.0				6408.6
FieldComment								*
ph	su	7.1	7.7	8.8				7.91
Conductivity	umhos/cm	2000	2652	3700				2440
Temperature	Celsius	5.6	10.3	12.6				9.6
Lab Parameters		UNITS						
Bicarbonate	mg/L	1.44	1962.32	13770.0				1100
Carbonate	mg/L	<MDL	65.6	138.5				114
Chloride	mg/L	<MDL	85.6	407.0				40.3
Conductivity	umhos/cm	1370	2791	5850				2320
Hardness	mg/L	8.54	46.05	145.95				41
Nitrate-Nitrite	mg/L	<MDL	2.8	32.3				0.056
Ammonia	mg/L	<MDL	0.9	2.5				<MDL
pH	su	7.1	8.0	9.1				8.4
Phosphate	mg/L	<MDL	0.4	1.8				0.76
ResidueFilterable-TDS	mg/L	794	1878	3900				1500
Sulfate	mg/L	<MDL	23.94	288.00				38.1
Arsenic (Dissolved)	mg/L	<MDL	0.050	0.415				0.00269
Cadmium (Dissolved)	mg/L	<MDL	0.02	0.07				<MDL
Calcium (Dissolved)	mg/L	<MDL	19.9	115.0				10.7
Iron (Dissolved)	mg/L	<MDL	0.19	2.97				0.17
Iron (TREC)	mg/L	0.01	0.57	1.82				0.809
Magnesium (Dissolved)	mg/L	<MDL	4.5	18.1				3.5
Manganese (Dissolved)	mg/L	<MDL	2.737	86.700				0.042
Manganese (TREC)	mg/L	0.006	0.042	0.132				0.067
Mercury (Dissolved)	mg/L	<MDL	0.00008	0.00036				<MDL
Selenium (Dissolved)	mg/L	<MDL	0.030	0.149				<MDL
Sodium (Dissolved)	mg/L	218	818	2093				555
Zinc (Dissolved)	mg/L	<MDL	0.022	0.067				<MDL

The area of concern for monitoring point DH-67abv has not been affected by the mining operation. Therefore, monitoring events are considered Baseline.

*Site inaccessible due to snow for 1Q

DH-67blw
Hubbard Creek - Monitoring Well
Elevation - 6466
Depth - 357'
Replacement Well 9/26/14

9/26/2014
6/28/2023

Summary Information

Field Parameters	UNITS	Min	Ave	Max	
Static Water Level	Feet	244	259.153	318.55	251.7
Water Elevation	Feet	6147.5	6206.8	6222.0	6214.3
FieldComment					*
ph	su	7.9	8.5	9.7	9.12
Conductivity	umhos/cm	4800	6385	6920	6740
Temperature	Celsius	16.1	17.6478	21.1	17.6
Lab Parameters	UNITS				
Bicarbonate	mg/L	1460	3316.92	4150	2870
Carbonate	mg/L	<MDL	<MDL	<MDL	441
Chloride	mg/L	0.414	324	435	405
Conductivity	umhos/cm	2020	5552.14	6490	6490
Hardness	mg/L	6	29.2636	55.1	14
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL
Ammonia	mg/L	0.39	3.8	11.1	11.1
pH	su	7.92	8.52071	9.35	9
Phosphate	mg/L	0.12	0.35	0.98	0.98
Residue Filterable-TDS	mg/L	1380	3892.14	4840	4400
Sulfate	mg/L	<MDL	16.66	26.9	<MDL
Arsenic	mg/L	<MDL	<MDL	<MDL	0.00155
Cadmium	mg/L	<MDL	<MDL	<MDL	0.000102
Calcium	mg/L	2.1	7.47	15.60	2.89
Iron (Dissolved)	mg/L	0.0358	0.08838	0.167	<MDL
Iron (Total)	mg/L	0.104	0.70207	1.37	0.432
Magnesium	mg/L	0.009	2.25725	3.920	1.57
Manganese (Dissolved)	mg/L	0.0089	0.02998	0.0899	<MDL
Manganese (Total)	mg/L	0.0014	61.3079	674	<MDL
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL
Selenium	mg/L	<MDL	<MDL	<MDL	0.00014
Sodium (Dissolved)	mg/L	514	1576	1830	1620
Zinc	mg/L	<MDL	0.0826	0.0826	<MDL

The area of concern for monitoring point DH-67blw has not been affected by the mir. monitoring events are considered Baseline.

Replacement well constructed September 2014

**Site inaccessible due to snow for 1Q*

Baseline Information collection re-initiated on 9/26/2014 and not yet considered complete. Point DH-67blw has not been influenced by mining.

Bowie Resources, LLC
Bowie No. 2 Mine
2023 Baseline

Ground Water

CWI-DH-58A
Upper B Seam
Elevation -7442.2
Depth - 575'

3/17/2015

8/29/2023

Summary Information

Baseline

Field Parameters	UNITS	Min	Ave	Max	
Static Water Level	Feet	512.6	533.4	536.1	535
Water Elevation	Feet	6906.1	6908.8	6929.6	6907.2
FieldComment					
ph	su	7.6	8.4	17.7	8.06
Conductivity	umhos/cm	2	1624	2460	2460
Temperature	Celsius	17.7	20.0	26.2	20.3
Lab Parameters	UNITS				
Bicarbonate	mg/L	635	983	1350	1350
Carbonate	mg/L	<MDL	34.6	77.4	<MDL
Chloride	mg/L	16.4	20.6	34.6	19.2
Conductivity	umhos/cm	866	1501	2360	2360
Hardness	mg/L	8.2	27.4	65.7	28.0
Nitrate-Nitrite	mg/L	<MDL	0.08	0.08	<MDL
Ammonia	mg/L	0.03	1.10	2.02	<MDL
pH	su	7.59	8.25	9.03	8
Phosphate	mg/L	1.67	2.88	5.20	1.67
ResidueFilterable-TDS	mg/L	744	1090	1450	1450
Sulfate	mg/L	<MDL	1.7	3.5	1.1
Arsenic	mg/L	<MDL	0.03404	0.06200	0.062
Cadmium	mg/L	<MDL	<MDL	<MDL	<MDL
Calcium	mg/L	<MDL	8.8	14.0	9.01
Iron (Dissolved)	mg/L	0.012	0.170	1.750	0.299
Iron (Total)	mg/L	0.573	2.532	9.270	2.32
Magnesium (Dissolved)	mg/L	0.052	1.150	6.000	1.25
Manganese (Dissolved)	mg/L	<MDL	0.2466	2.3300	0.088
Manganese (Total)	mg/L	<MDL	0.2333	0.6240	0.106
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL
Selenium	mg/L	<MDL	<MDL	<MDL	<MDL
Sodium	mg/L	141	517	3050	575
Zinc	mg/L	<MDL	0.0219	0.0219	<MDL

The area of concern for monitoring point CWI-DH-58A has not been affected by the n monitoring events are considered Baseline.

New Well beginning in December 2014.

Baseline information collection initiated on March 17, 2015.
Point CWI-DH-58A has not and will not be influenced by mining.

CWI-DH-60
Upper B Seam
Elevation - 7921
Depth - 1085'

10/20/2014
8/30/2023

Summary Information

Field Parameters	UNITS	Min	Ave	Max	
Static Water Level	Feet	943.6	946.6	952.1	944.2
Water Elevation	Feet	6968.9	6974.4	6977.4	6976.8
FieldComment					
ph	su	8.0	8.3	8.5	8.27
Conductivity	umhos/cm	1062	4837	10980	1138
Temperature	Celsius	18.5	21.4	23.4	22.2
Lab Parameters	UNITS				
Bicarbonate	mg/L	5620	7249	8330	6310
Carbonate	mg/L	<MDL	<MDL	<MDL	401
Chloride	mg/L	240	300	337	308
Conductivity	umhos/cm	7820	9633	10900	10900
Hardness	mg/L	56.0	72.9	86.2	58
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL
Ammonia	mg/L	0.84	1.67	2.84	1.87
pH	su	7.96	8.18	8.60	8.2
Phosphate	mg/L	0.05	0.22	0.50	0.499
ResidueFilterable-TDS	mg/L	6070	7504	8110	7100
Sulfate	mg/L	<MDL	20.7	23.2	<MDL
Arsenic	mg/L	<MDL	0.00044	0.00045	<MDL
Cadmium	mg/L	<MDL	0.0014	0.0018	0.00154
Calcium	mg/L	11.3	16.1	21.2	11.3
Iron (Dissolved)	mg/L	0.216	27.082	532.000	1.4
Iron (Total)	mg/L	0.83	2.99	10.70	10.7
Magnesium (Dissolved)	mg/L	6.00	7.96	9.57	7.11
Manganese (Dissolved)	mg/L	0.0103	0.0145	0.0186	<MDL
Manganese (Total)	mg/L	0.0131	0.0364	0.1010	0.101
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL
Selenium	mg/L	<MDL	<MDL	<MDL	<MDL
Sodium	mg/L	315	2891	3760	2970
Zinc	mg/L	<MDL	<MDL	<MDL	<MDL

The area of concern for monitoring point CWI-DH-60 has not been affected by the mi monitoring events are considered Baseline.

CWI-DH-60 is located southwest of projected mining. It will not be impacted by Bowi

CWI-DH-60 was cemented to the bottom of the upper B-Seam during September 201

CWI-DH-60 was worked over and cleaned during August 2014.

Baseline Information collection re-initiated on 03/18/15.
Point CWI-DH-60 has not and will not be influenced by mining.

DH-2010-1B
B Seam
Elevation - 7544.6
Depth - 1220'

10/16/2014
8/29/2023

Summary Information

Field Parameters	UNITS	Min	Ave	Max	
Static Water Level	Feet	1092.4	1163.5	1998.1	1105.9
Water Elevation	Feet	5549	6384	6455	6441.1
FieldComment					
ph	su	7.4	10.9	23.3	7.7
Conductivity	umhos/cm	378	1783	2666	2150
Temperature	Celsius	11.6	24.7	27.7	26.6
Lab Parameters	UNITS				
Bicarbonate	mg/L	<MDL	212.2	1040.0	<MDL
Carbonate	mg/L	45	273	553	450
Chloride	mg/L	6.30	110.47	203.00	203
Conductivity	umhos/cm	336	1505	2530	2530
Hardness	mg/L	0.0	9.7	44.0	7.9
Nitrate-Nitrite	mg/L	<MDL	0.48	1.60	<MDL
Ammonia	mg/L	0.5	17.0	28.8	26.2
pH	su	8.20	10.55	11.58	11.2
Phosphate	mg/L	0.05	0.25	1.40	0.5
ResidueFilterable-TDS	mg/L	253	1083	1800	1580
Sulfate	mg/L	1.5	82.0	166.0	154
Arsenic (Dissolved)	mg/L	<MDL	0.0438	0.1710	0.0141
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL
Calcium (Dissolved)	mg/L	1.54	3.63	15.00	3.17
Iron (Dissolved)	mg/L	0.0570	0.1203	0.2450	0.087
Iron (Total)	mg/L	0.20	1.41	4.31	0.394
Magnesium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL
Manganese (Dissolved)	mg/L	<MDL	0.0231	0.1110	<MDL
Manganese (Total)	mg/L	0.0068	0.0352	0.1370	<MDL
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL
Selenium (Dissolved)	mg/L	<MDL	<MDL	<MDL	0.0278
Sodium (Dissolved)	mg/L	74	323	502	502
Zinc (Dissolved)	mg/L	<MDL	<MDL	<MDL	0.209

The area of concern for monitoring point DH-2010-1B has not been affected by the m monitoring events are considered Baseline.

DH-2010-1B is located in Section 5 It will be impacted by future Bowie No. 2 Mine w DH-2010-1B was rehabilitated in 2014. Baseline inforamtion is collected beginning O

Baseline Information collection re-initiated on 10/16/14 and not yet considered complete.
Point DH-2010-1B has not been influenced by mining.

DH-2010-1SS
Sanstone Above B-Seam
Elevation - 7544.4
Depth - 1140'

3/18/2015
8/29/2023

Summary Information

Field Parameters	UNITS	Min	Ave	Max	
Static Water Level	Feet	1088.3	1096.8	1104.2	1104.2
Water Elevation	Feet	6442.8	6450.2	6458.7	6442.8
FieldComment					
ph	su	7.0	8.1	11.7	11.4
Conductivity	umhos/cm	1330	1758	2790	2780
Temperature	Celsius	7.3	25.3	27.6	26.3
Lab Parameters	UNITS				
Bicarbonate	mg/L	<MDL	691	809	<MDL
Carbonate	mg/L	<MDL	<MDL	<MDL	450
Chloride	mg/L	110	153	416	203
Conductivity	umhos/cm	1110	1463	2530	2530
Hardness	mg/L	7.9	40.0	52.0	7.9
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	<MDL
Ammonia	mg/L	5.0	7.6	26.2	26.2
pH	su	7.10	7.60	11.20	11.2
Phosphate	mg/L	0.5	1.6	5.2	0.5
ResidueFilterable-TDS	mg/L	780	1057	1800	1580
Sulfate	mg/L	<MDL	34.04	154.00	154
Arsenic (Dissolved)	mg/L	0.01	0.21	0.29	0.0141
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL
Calcium (Dissolved)	mg/L	0.1	13.1	17.2	3.17
Iron (Dissolved)	mg/L	0.087	0.151	0.323	0.087
Iron (Total)	mg/L	0.39	2.80	4.94	0.394
Magnesium (Dissolved)	mg/L	0.130	1.241	1.610	<MDL
Manganese (Dissolved)	mg/L	0.0832	0.1043	0.1300	<MDL
Manganese (Total)	mg/L	0.095	0.125	0.145	<MDL
Mercury (Dissolved)	mg/L	<MDL	0.001	0.001	<MDL
Selenium (Dissolved)	mg/L	<MDL	0.0036	0.0044	0.00278
Sodium (Dissolved)	mg/L	274	333	502	502
Zinc (Dissolved)	mg/L	<MDL	0.0980	0.2090	0.209

The area of concern for monitoring point DH-2010-1SS has not been affected by the monitoring events are considered Baseline.

DH-2010-1SS is located in Section 5. It will be impacted by future Bowie No. 2 Mine

Lab analysis is required semi-annually

Baseline Information collection re-initiated on 03/18/15 and not yet considered complete.
Point DH-2010-1B has not been influenced by mining.

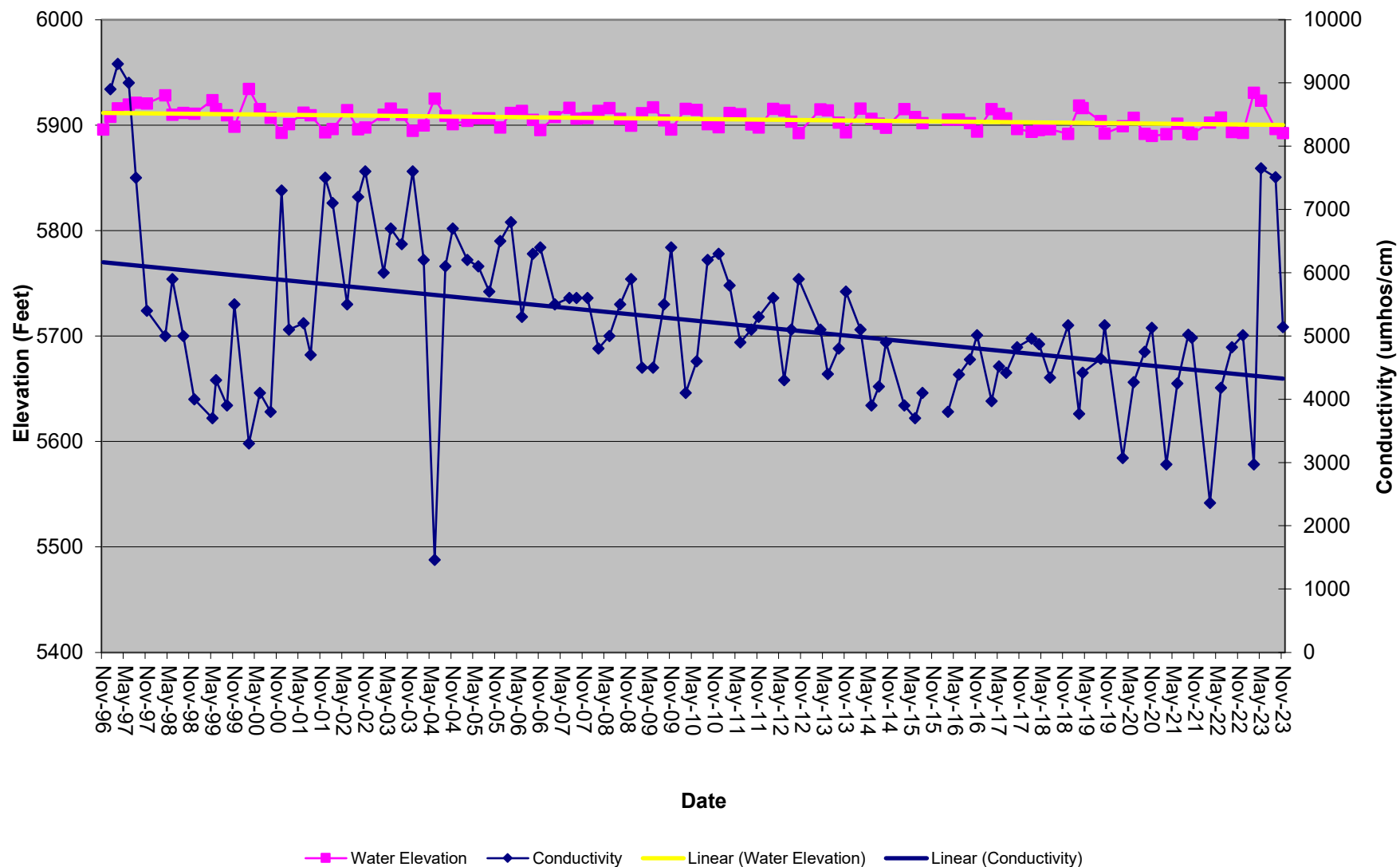
AW-1
Alluvial Well
Top of Pipe Elevation - 5977.76'
Depth - 120'
Pipe 1.06' Above Ground

Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/24/2023	3/27/2023

Field Parameters		Summary Information			Baseline			Operation					
		UNITS	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max		
Static Water Level	Feet		61.92	71.25	82.01	43.44	71.81	88.10	85.3	81.5	54.5	47.1	
Water Elevation	Feet		5895.7	5906.5	5915.8	5889.7	5905.9	5934.3	5892.46	5896.26	5923.26	5930.66	
FieldComment													
ph	su		7.1	7.2	7.3	7.0	7.4	12.9	7.43	7.51	7.65	7.6	
Conductivity	umhos/cm		8900	9100	9300	1460	5174	9000	5140	7510	7650	2970	
Temperature	Celsius		10.2	11.3	12.4	8.7	27.9	1590.0	13.4	14.1	13.6	14.1	
Lab Parameters	UNITS												
Bicarbonate	mg/L		641	649	657	214.0	613.6	1165.2		653			
Carbonate	mg/L		<MDL	<MDL	<MDL	<MDL	0.83	10.76		<MDL			
Chloride	mg/L		77	78	79	8.5	154.7	318.5		145			
Conductivity	umhos/cm		6480	7230	7980	894	5072	8610		4170			
Hardness	mg/L		2750	2895	3040	<MDL	1434	4511		1410			
Nitrate-Nitrite	mg/L		5.7	6.5	7.3	<MDL	3.59	11.20		2.11			
Ammonia	mg/L		0.07	0.11	0.14	<MDL	0.49	8.10		<MDL			
pH	su		7.4	7.6	7.8	0.0	7.4	8.5		8.2			
Phosphate	mg/L		<MDL	<MDL	<MDL	<MDL	0.03	0.22		0.06			
ResidueFilterable-TDS	mg/L		7990	8200	8410	787	4414	8710		3350			
Sulfate	mg/L		5140	5220	5300	135	2360	8330		1830			
Arsenic (Dissolved)	mg/L		<MDL	0	0	<MDL	0	1		<MDL			
Cadmium (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.015	0.050		<MDL			
Calcium (Dissolved)	mg/L		316	327	338	23.4	171.8	360.0		184			
Iron (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.12	1.75		<MDL			
Iron (TREC)	mg/L		0.13	0.41	0.70	0.01	0.58	2.37		0.276			
Magnesium (Dissolved)	mg/L		476	505	533	53.8	280.3	961.5		230			
Manganese (Dissolved)	mg/L		<MDL	0.03	0.05	<MDL	0.034	0.490		<MDL			
Manganese (TREC)	mg/L		0.01	0.03	0.06	<MDL	1.492	7.440		0.021			
Mercury (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.00005	0.00024		<MDL			
Selenium (Dissolved)	mg/L		0.026	0.031	0.035	0.001	0.214	7.400		0.0167			
Sodium (Dissolved)	mg/L		1550	1625	1700	253.0	883.7	1867.5		601			
Zinc (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.02	0.11		<MDL			

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

Plot of Conductivity and Water Level



AW-2
Alluvial Well
Top of Pipe Elevation - 5966.2'
Depth - 50.4'
Pipe 1.32' Above Ground

Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters		Summary Information									
		UNITS	Baseline			Operation					
			Min	Ave	Max	Min	Ave	Max			
Static Water Level	Feet		50.35	50.65	50.81	35.55	47.26	54.90	45.2	45.3	45.5
Water Elevation	Feet		5915.8	5916.0	5916.3	5911.7	5919.4	5931.1	5921.42	5921.32	5921.12
FieldComment			Damp						MUD	DRY	DRY
ph	su					6.8	7.1	7.7	7.33		
Conductivity	umhos/cm					989	6606	10610	1010		
Temperature	Celsius					10.5	14.6	18.4	13.1		
Lab Parameters		UNITS									
Bicarbonate	mg/L					345.18	792.65	1080.00			
Carbonate	mg/L					<MDL	235.47	908.00			
Chloride	mg/L					54.50	175.07	370.63			
Conductivity	umhos/cm					3770	8012	12510			
Hardness	mg/L					241.87	2845.46	4540.00			
Nitrate-Nitrite	mg/L					<MDL	3.12	9.65			
Ammonia	mg/L					<MDL	1.40	4.60			
pH	su					6.7	7.5	8.4			
Phosphate	mg/L					<MDL	0.07	0.25			
ResidueFilterable-TDS	mg/L					319	7505	11300			
Sulfate	mg/L					235	3913	6960			
Arsenic (Dissolved)	mg/L					<MDL	0.179	1.795			
Cadmium (Dissolved)	mg/L					<MDL	0.0345	0.1100			
Calcium (Dissolved)	mg/L					33	328	518			
Iron (Dissolved)	mg/L					0.02	0.09	0.26			
Iron (TREC)	mg/L					0.04	1.51	13.60			
Magnesium (Dissolved)	mg/L					170	547	970			
Manganese (Dissolved)	mg/L					<MDL	0.15	0.89			
Manganese (TREC)	mg/L					0.01	0.40	3.90			
Mercury (Dissolved)	mg/L					<MDL	0.04060	0.77000			
Selenium (Dissolved)	mg/L					0.00	0.06	0.54			
Sodium (Dissolved)	mg/L					21.0	1158.7	2212.5			
Zinc (Dissolved)	mg/L					<MDL	0.04	0.08			

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

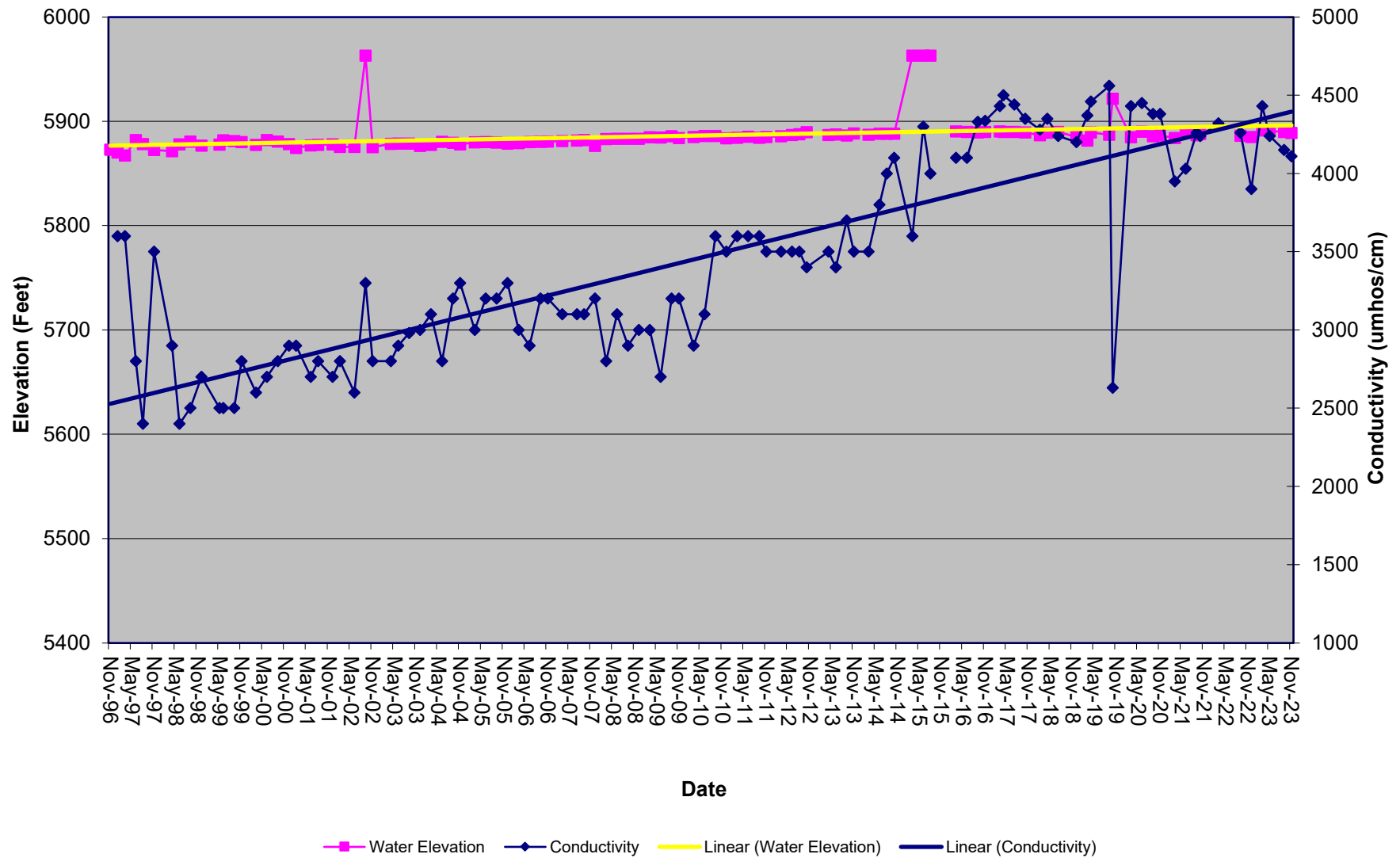
AW-3
Alluvial Well
Top of Pipe Elevation - 5962.96'
Depth - 150'
Pipe 1.16' Above Ground

Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	Baseline			Operation								
	UNITS	Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet	90.23	92.97	95.82	0.00	78.23	91.54	74.1	73.2	72.3	71.6	
Water Elevation	Feet	5867.1	5870.0	5872.7	5871.4	5884.7	5963.0	5888.86	5889.76	5890.66	5891.36	
FieldComment												
ph	su	6.9	7.0	7.1	6.8	20.6	675.0	7.41	7.11	675	7.34	
Conductivity	umhos/cm	3600	3600	3600	2400	3452	4560	4110	4150	4240	4430	
Temperature	Celsius	11.2	12.8	14.4	7.6	13.6	15.8	13.8	14.0	12.1	14.6	
Lab Parameters	UNITS											
Bicarbonate	mg/L	851	976	1100	40	608	1080			723		
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	0.83	10.76			<MDL		
Chloride	mg/L	119	128	136	33.77	152.02	367.00			298		
Conductivity	umhos/cm	2800	2975	3150	1817	3287	4580			4200		
Hardness	mg/L	1280	1325	1370	<MDL	1696	3354			2250		
Nitrate-Nitrite	mg/L	<MDL	<MDL	<MDL	0.03	3.12	10.20			7.76		
Ammonia	mg/L	1.66	1.90	2.13	<MDL	0.36	2.00			<MDL		
pH	su	7.2	7.3	7.5	6.9	7.5	8.5			8.1		
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.86	21.80			0.0403		
ResidueFilterable-TDS	mg/L	2390	2415	2440	1750	2790	4130			3500		
Sulfate	mg/L	870	875	880	760	1308	2030			1690		
Arsenic (Dissolved)	mg/L	<MDL	0.001	0.001	<MDL	0.976	28.900			<MDL		
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.009	0.040			<MDL		
Calcium (Dissolved)	mg/L	201	206	210	90.5	254.7	505.0			184		
Iron (Dissolved)	mg/L	0.19	0.33	0.46	<MDL	0.53	8.22			<MDL		
Iron (TREC)	mg/L	8.00	8.23	8.46	0.03	2.52	27.50			0.276		
Magnesium (Dissolved)	mg/L	189	197	205	136	270	661			230		
Manganese (Dissolved)	mg/L	0.10	0.11	0.13	<MDL	0.144	1.280			<MDL		
Manganese (TREC)	mg/L	0.12	0.12	0.12	0.008	3.653	111.000			0.021		
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00007	0.00035			<MDL		
Selenium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.017	0.134			0.0167		
Sodium (Dissolved)	mg/L	421	433	445	105	242	682			601		
Zinc (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.02	0.10			<MDL		

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

Plot of Conductivity and Water Level



AW-4
Alluvial Well
Top of Pipe Elevation - 5977.2'
Depth - 60'
Pipe 1.12' Above Ground

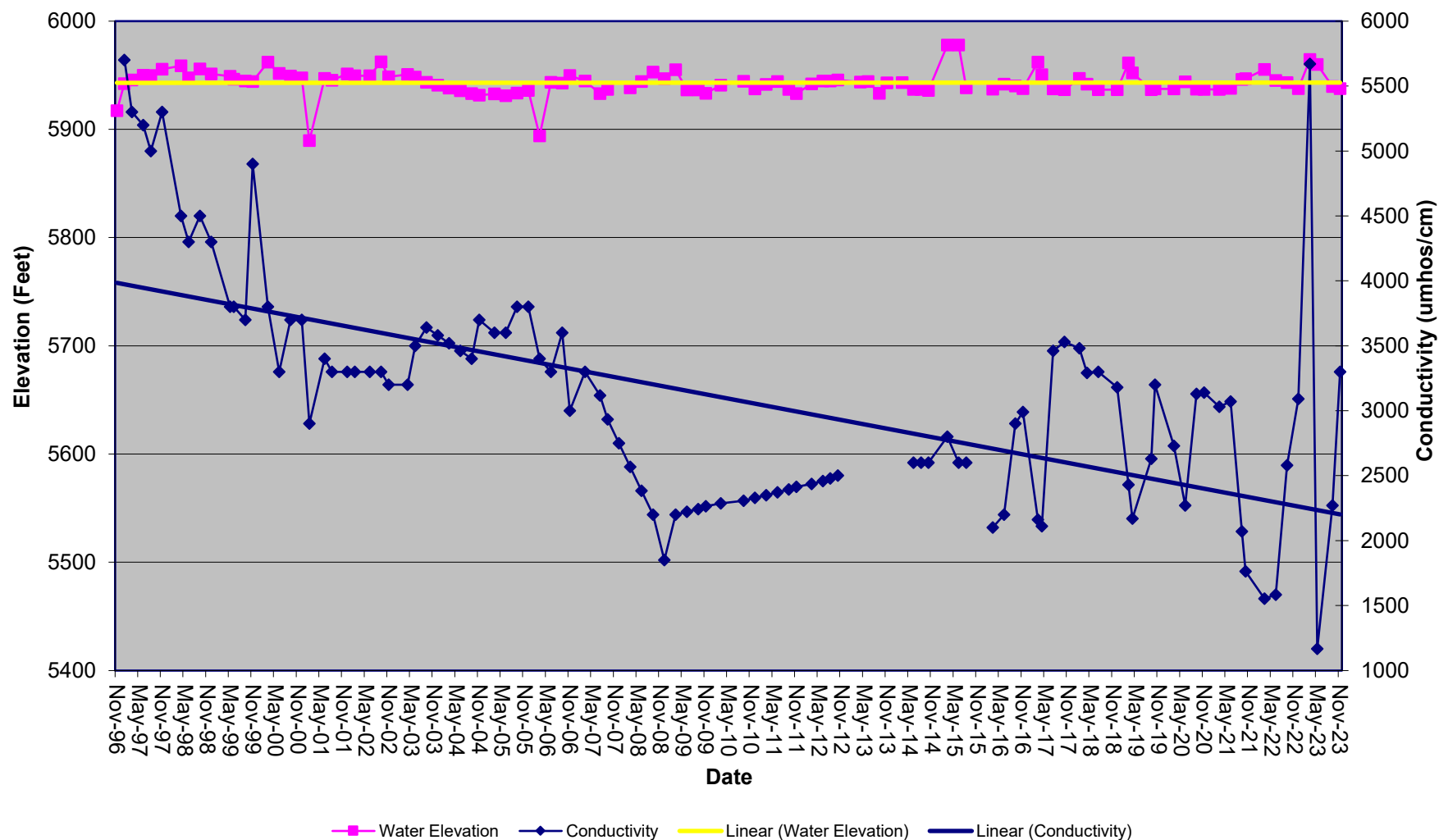
Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

		Summary Information									
Field Parameters		Baseline			Operation						
	UNITS	Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet	32.42	42.94	60.78	13.50	34.97	88.38	40.4	38.4	18.1	13.5
Water Elevation	Feet	5917.1	5935.0	5945.5	5889.5	5942.9	5964.4	5937.52	5939.52	5959.82	5964.42
FieldComment											
ph	su	6.8	6.9	7.0	6.7	7.4	8.2	7.76	7.76	7.81	7.78
Conductivity	umhos/cm	5300	5500	5700	1167	3161	5670	3300	2270	1167	5670
Temperature	Celsius	11.2	11.9	12.6	8.0	12.3	15.5	8.8	15.4	11.9	12.8
Lab Parameters	UNITS										
Bicarbonate	mg/L	624	707	790	316.1	529.3	758.0			323	
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	0.37	4.49			<MDL	
Chloride	mg/L	57	60	63	31	144	489			489	
Conductivity	umhos/cm	3880	4495	5110	1520	3250	9490			1580	
Hardness	mg/L	2650	2670	2690	<MDL	1002	2730			574	
Nitrate-Nitrite	mg/L	0.10	0.21	0.32	<MDL	0.54	6.75			0.114	
Ammonia	mg/L	0.09	0.22	0.34	<MDL	0.63	6.60			<MDL	
pH	su	7.1	7.3	7.5	7.1	7.6	8.3			8.3	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.94	21.30			0.0496	
ResidueFilterable-TDS	mg/L	4830	5080	5330	1020	2616	4990			1140	
Sulfate	mg/L	2620	2920	3220	405	1241	2760			538	
Arsenic	mg/L	<MDL	<MDL	<MDL	<MDL	0.005	0.042			0.00039	
Cadmium	mg/L	<MDL	<MDL	<MDL	<MDL	0.00442	0.03000			0.000063	
Calcium	mg/L	465	481	496	19.8	207.7	496.0			107	
Iron (Dissolved)	mg/L	<MDL	0.04	0.07	<MDL	0.10	0.73			<MDL	
Iron (TREC)	mg/L	0.10	0.14	0.17	0.07	2.64	69.20			0.074	
Magnesium (Dissolved)	mg/L	353	357	361	71	163	362			74.6	
Manganese (Dissolved)	mg/L	0.22	0.43	0.64	<MDL	0.61	1.52			0.536	
Manganese (TREC)	mg/L	0.18	0.40	0.62	0.03	58.55	1270.00			0.557	
Mercury	mg/L	<MDL	<MDL	<MDL	<MDL	0.00006	0.00030			<MDL	
Selenium	mg/L	<MDL	0.0005	0.0010	<MDL	0.0036	0.0354			0.00031	
Sodium	mg/L	590	646	702	159	365	684			159	
Zinc	mg/L	<MDL	<MDL	<MDL	<MDL	0.03	0.15			0.153	

*Small bailer won't reach water, casing pinched

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

Plot of Conductivity and Water Level



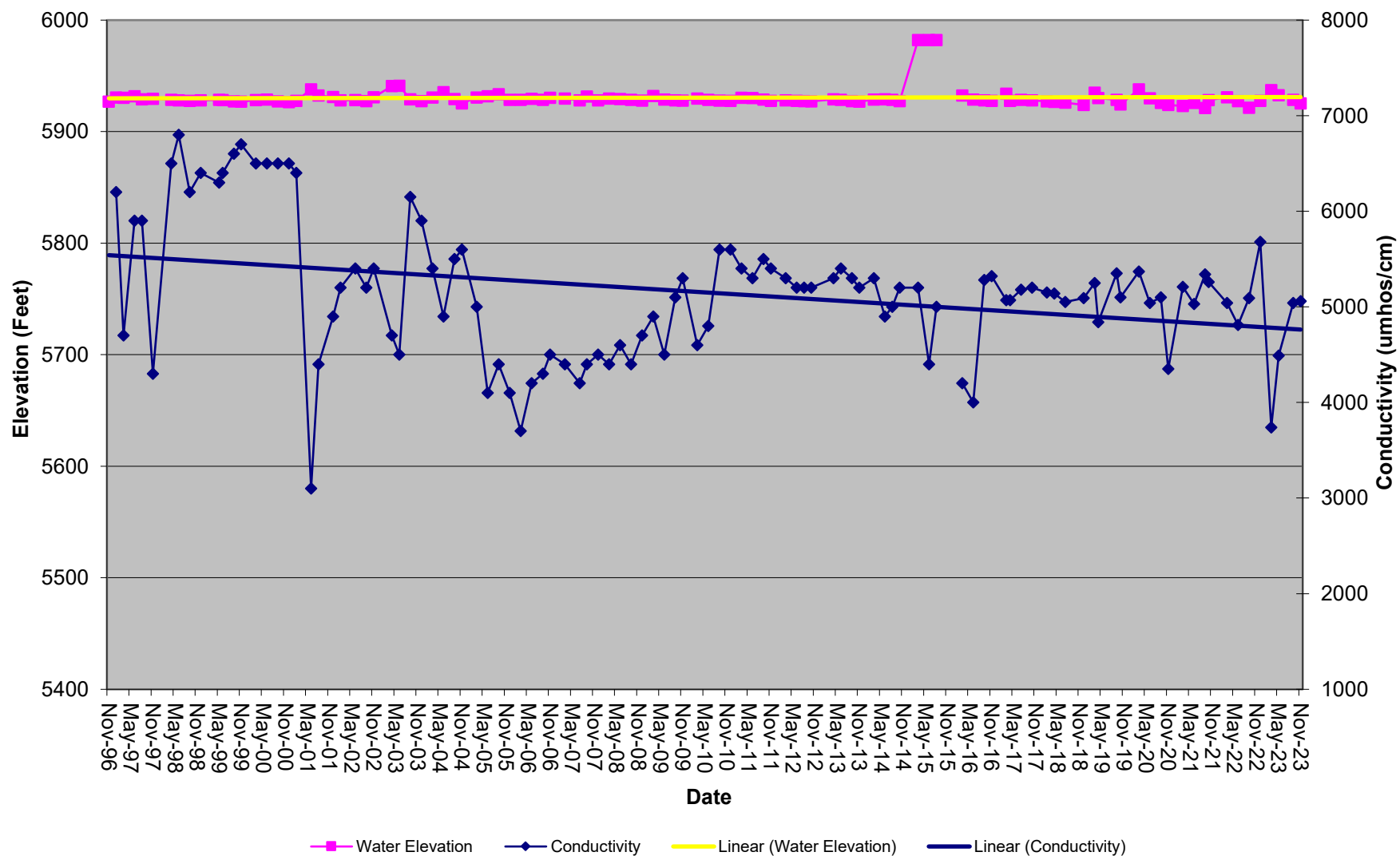
AW-5 Alluvial Well
Top of Pipe Elevation - 5982.14'
Depth - 100'
Pipe 1.14' Above Ground

Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters		Summary Information									
		UNITS	Baseline			Operation					
			Min	Ave	Max	Min	Ave	Max			
Static Water Level	Feet		51.65	52.95	55.26	41.03	53.12	61.10	56.8	53.8	49.5
Water Elevation	Feet		5926.9	5929.2	5930.5	5921.0	5929.0	5941.1	5925.34	5928.34	5932.64
FieldComment											
ph	su		7.1	7.2	7.3	6.6	7.5	51.8	7.4	7.4	7.3
Conductivity	umhos/cm		4700	5450	6200	3100	5147	6800	5060	5040	4490
Temperature	Celsius		12.8	13.7	14.6	7.1	14.3	16.9	13.6	16.7	14
Lab Parameters	UNITS										
Bicarbonate	mg/L		566	658	750	99.05	747.39	1100.00			852
Carbonate	mg/L		<MDL	<MDL	<MDL	<MDL	0.98	10.76			<MDL
Chloride	mg/L		49	51	52	29.0	257.5	636.5			321
Conductivity	umhos/cm		4270	4890	5510	378	4989	6650			4290
Hardness	mg/L		3330	3380	3430	<MDL	2513	5318			1880
Nitrate-Nitrite	mg/L		34.4	35.2	36.0	<MDL	14.26	46.70			8.79
Ammonia	mg/L		0.10	0.11	0.13	<MDL	0.55	2.03			<MDL
pH	su		7.2	7.4	7.6	6.7	7.4	8.4			8.1
Phosphate	mg/L		<MDL	<MDL	<MDL	<MDL	0.136	3.240			0.0496
ResidueFilterable-TDS	mg/L		5390	5580	5770	3270	4694	6760			3410
Sulfate	mg/L		3140	3385	3630	977	2303	4550			1530
Arsenic (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.067	0.552			<MDL
Cadmium (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.01421	0.0690			0.000061
Calcium (Dissolved)	mg/L		291	298	305	27.6	254.0	451.0			248
Iron (Dissolved)	mg/L		<MDL	0.03	0.06	<MDL	0.038	0.106			<MDL
Iron (TREC)	mg/L		0.10	0.11	0.12	<MDL	8.90	385.00			0.06
Magnesium (Dissolved)	mg/L		633	642	650	253	512	1158			305
Manganese (Dissolved)	mg/L		<MDL	0.01	0.02	<MDL	0.011	0.044			<MDL
Manganese (TREC)	mg/L		0.01	0.01	0.02	<MDL	0.025	0.220			<MDL
Mercury (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.00005	0.00035			<MDL
Selenium (Dissolved)	mg/L		0.03	0.03	0.03	0.002	0.031	0.250			0.036
Sodium (Dissolved)	mg/L		523	531	539	204	427	825			453
Zinc (Dissolved)	mg/L		<MDL	0.01	0.03	<MDL	0.025	0.070			<MDL

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

Plot of Conductivity and Water Level



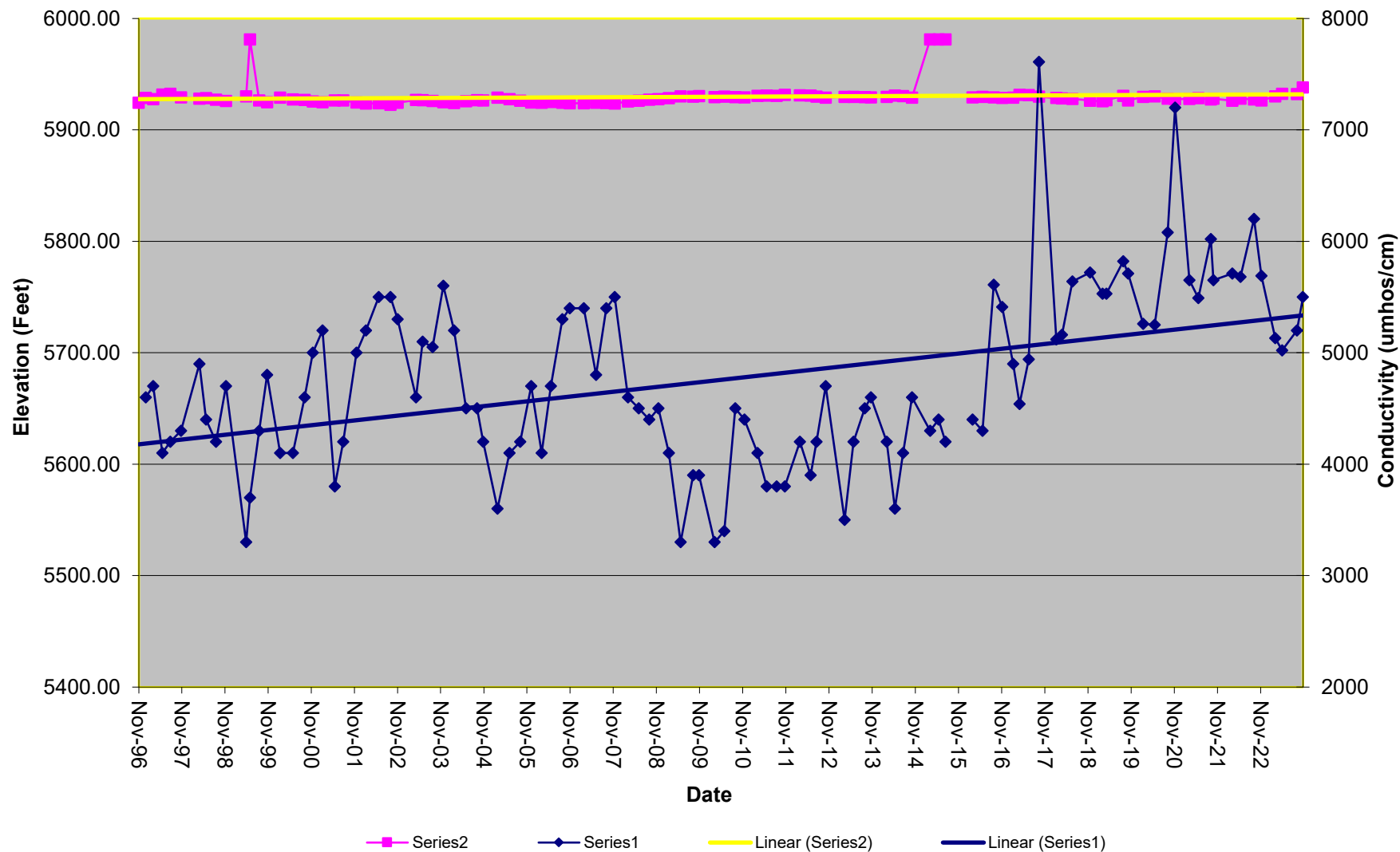
AW-6
Alluvial Well
Top of Pipe Elevation - 5981.18'
Depth - 112'
Pipe 1.38' Above Ground

Initiated	11/23/1996	11/23/1996	11/23/1996	11/23/1996
Activated	3/27/1997	3/27/1997	3/27/1997	3/27/1997
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters		Summary Information									
		UNITS	Baseline			Operation					
			Min	Ave	Max	Min	Ave	Max			
Static Water Level	Feet		52.62	54.37	56.82	0.00	52.87	58.61	53.2	49.1	48.8
Water Elevation	Feet		5924.4	5926.8	5928.6	5922.6	5928.3	5981.2	5927.98	5932.08	5932.38
FieldComment											
ph	su		7.3	7.4	7.4	7.0	7.3	8.5	7.44	7.31	7.54
Conductivity	umhos/cm		4600	4650	4700	3300	4742	7610			
Temperature	Celsius		12.4	13.5	14.6	11.6	14.2	18.0	13.7	18.0	15.4
Lab Parameters	UNITS										
Bicarbonate	mg/L		278	317	355	217.4	393.9	521.0			459
Carbonate	mg/L		<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			<MDL
Chloride	mg/L		107	114	120	54.5	139.2	577.8			163
Conductivity	umhos/cm		2580	3305	4030	3125	4546	7450			4940
Hardness	mg/L		1880	1925	1970	<MDL	1819	4787			2250
Nitrate-Nitrite	mg/L		7.3	8.1	8.8	0.0	5.0	9.0			2.61
Ammonia	mg/L		0.07	0.07	0.07	<MDL	0.36	1.56			<MDL
pH	su		7.5	7.6	7.7	7.0	7.6	8.3			8.1
Phosphate	mg/L		<MDL	<MDL	<MDL	<MDL	0.77	21.80			0.1
ResidueFilterable-TDS	mg/L		3910	3995	4080	2440	4218	5770			4560
Sulfate	mg/L		2300	2300	2300	968	2915	33080			2700
Arsenic (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.090	0.650			0.00042
Cadmium (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.011	0.040			0.000099
Calcium (Dissolved)	mg/L		248	254	260	37	237	327			297
Iron (Dissolved)	mg/L		<MDL	0.14	0.27	<MDL	0.06	0.26			<MDL
Iron (TREC)	mg/L		0.26	0.31	0.37	0.06	0.52	4.74			1.15
Magnesium (Dissolved)	mg/L		307	315	322	0.0	317.6	1015.6			366
Manganese (Dissolved)	mg/L		0.07	0.18	0.29	<MDL	0.499	15.500			0.011
Manganese (TREC)	mg/L		0.11	0.20	0.29	<MDL	0.104	0.350			0.17
Mercury (Dissolved)	mg/L		<MDL	<MDL	<MDL	<MDL	0.00008	0.00070			<MDL
Selenium (Dissolved)	mg/L		0.05	0.06	0.06	0.001	0.066	0.380			0.0272
Sodium (Dissolved)	mg/L		501	514	526	306.9	538.6	965.0			536
Zinc (Dissolved)	mg/L		<MDL	0.05	0.11	<MDL	0.02	0.07			<MDL

Alluvial Wells AW-1 through AW-6 are located north of Old State Highway 133, near the entrance to the mine.

Plot of Conductivity and Water Level



AW-7
Alluvial Well
Top of Pipe Elevation - 5950'
Depth - 188'
Pipe 2.17' Above Ground

Initiated	9/9/1999	9/9/1999	9/9/1999	9/9/1999
Activated	9/9/1999	9/9/1999	9/9/1999	9/9/1999
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet				50.59	76.75	107.80	96.4	79.9	68.6	57.2	
Water Elevation	Feet				5842.2	5873.3	5899.4	5853.6	5870.1	5881.4	5892.8	
FieldComment												
ph	su				7.1	7.8	8.5	8.02	7.93	7.96	7.98	
Conductivity	umhos/cm				300	1959	3100	2310	1771	1799	2050	
Temperature	Celsius				10.1	12.3	14.7	11.1	14.4	11.7	10.1	
Lab Parameters	UNITS											
Bicarbonate	mg/L				<MDL	348.2	511.2			412		
Carbonate	mg/L				<MDL	36.9	341.5			<MDL		
Chloride	mg/L				13.0	129.9	539.0			57.2		
Conductivity	umhos/cm				359	1950	3645			1690		
Hardness	mg/L				<MDL	449.35	1093.20			311		
Nitrate-Nitrite	mg/L				<MDL	1.46	7.92			0.759		
Ammonia	mg/L				<MDL	0.199	1.200			<MDL		
pH	su				7.1	7.9	8.6			8.2		
Phosphate	mg/L				<MDL	0.05	0.31			0.017		
ResidueFilterable-TDS	mg/L				200	1406	2254			1110		
Sulfate	mg/L				40.00	584.54	1110.00			439		
Arsenic (Dissolved)	mg/L				<MDL	0.033	0.255			<MDL		
Cadmium (Dissolved)	mg/L				<MDL	0.007	0.023			<MDL		
Calcium (Dissolved)	mg/L				12.8	94.0	687.0			48.2		
Iron (Dissolved)	mg/L				<MDL	0.04	0.28			<MDL		
Iron (TREC)	mg/L				<MDL	0.28	1.01			0.51		
Magnesium (Dissolved)	mg/L				6.3	82.4	619.0			46.4		
Manganese (Dissolved)	mg/L				<MDL	0.013	0.060			0.01		
Manganese (TREC)	mg/L				<MDL	0.350	4.740			0.023		
Mercury (Dissolved)	mg/L				<MDL	0.00006	0.00031			<MDL		
Selenium (Dissolved)	mg/L				<MDL	0.064	1.500			0.00518		
Sodium (Dissolved)	mg/L				46.7	347.5	1705.0			279		
Zinc (Dissolved)	mg/L				<MDL	0.020	0.040			<MDL		

The area of concern for monitoring point AW-7 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

Alluvial Wells AW-7 through AW-9 are located south of Old State Highway 133, near the entrance to the mine. They were installed in 1999 as the result of PR-03.

** Lab. data not provided

31173.12

AW-8
Alluvial Well
Top of Pipe Elevation - 5950'
Depth - 60'
Pipe 1.97' Above Ground

Initiated	9/9/1999	9/9/1999	9/9/1999	9/9/1999
Activated	9/9/1999	9/9/1999	9/9/1999	9/9/1999
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet				11.84	20.42	73.23	19.8	19.8	20.4	19.8	
Water Elevation	Feet				5876.8	5929.6	5938.2	5930.2	5930.2	5929.6	5930.2	
FieldComment								Dry	Dry	Dry	Dry	
ph	su				8.2	9.0	9.8					
Conductivity	umhos/cm				260	360	460					
Temperature	Celsius				13.2	13.9	14.7					
Lab Parameters	UNITS											
Bicarbonate	mg/L				<MDL	444.0	444.0					
Carbonate	mg/L				<MDL	0.0	0.0					
Chloride	mg/L				<MDL	213.0	213.0					
Conductivity	umhos/cm				<MDL	2020.0	2020.0					
Hardness	mg/L				<MDL	448.0	448.0					
Nitrate-Nitrite	mg/L				<MDL	0.0	0.0					
Ammonia	mg/L				<MDL	0.0	0.0					
pH	su				<MDL	7.9	7.9					
Phosphate	mg/L				<MDL	0.0	0.0					
ResidueFilterable (TDS)	mg/L				<MDL	1580.0	1580.0					
Sulfate	mg/L				<MDL	638.0	638.0					
Arsenic	mg/L				<MDL	0.0	0.0					
Cadmium	mg/L				<MDL	0.0	0.0					
Calcium	mg/L				<MDL	710.0	710.0					
Iron (Dissolved)	mg/L				<MDL	0.0	0.0					
Iron (TREC)	mg/L				<MDL	0.1	0.1					
Magnesium	mg/L				<MDL	65.8	65.8					
Manganese (Dissolved)	mg/L				<MDL	0.0	0.0					
Manganese (Total)	mg/L				<MDL	0.0	0.0					
Mercury	mg/L				<MDL	0.0	0.0					
Selenium	mg/L				<MDL	0.0	0.0					
Sodium	mg/L				<MDL	367.0	367.0					
Zinc	mg/L				<MDL	0.0	0.0					

The area of concern for monitoring point AW-8 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

Alluvial Wells AW-7 through AW-9 are located south of Old State Highway 133, near the entrance to the mine. They were installed in 1999 as the result of PR-03.

* Lab. data not provided

AW-9
Alluvial Well
Top of Pipe Elevation - 5946
Depth - 80'
Pipe 1.15' Above Ground

Initiated	10/1/1999	10/1/1999	10/1/1999	10/1/1999
Activated	10/1/1999	10/1/1999	10/1/1999	10/1/1999
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet				32.42	55.86	81.60	80	62.6	44.5	35.9	
Water Elevation	Feet				51.1	5829.5	5913.6	5866	5883.4	5901.5	5910.1	
FieldComment								Dry				
ph	su				7.0	7.8	8.6		8.11	8.07	8	
Conductivity	umhos/cm				260	1635	4400		1241	1233	1221	
Temperature	Celsius				7.6	11.7	14.9		13.7	11.7	13.2	
Lab Parameters	UNITS											
Bicarbonate	mg/L				39.6	297.5	479.0			332		
Carbonate	mg/L				<MDL	7.23	13.70			<MDL		
Chloride	mg/L				3.0	118.8	544.5			23		
Conductivity	umhos/cm				519	1651	4350			1150		
Hardness	mg/L				<MDL	459.5	1530.0			276		
Nitrate-Nitrite	mg/L				<MDL	1.82	7.92			0.891		
Ammonia	mg/L				<MDL	0.16	1.10			<MDL		
pH	su				7.4	8.0	8.5			8.3		
Phosphate	mg/L				<MDL	1.41	21.60			0.0403		
ResidueFilterable-TDS	mg/L				330	1177	3800			740		
Sulfate	mg/L				21.8	441.8	2100.0			262		
Arsenic (Dissolved)	mg/L				<MDL	0.0419	0.2880			<MDL		
Cadmium (Dissolved)	mg/L				<MDL	0.00640	0.0220			<MDL		
Calcium (Dissolved)	mg/L				24.1	68.2	230.0			125		
Iron (Dissolved)	mg/L				<MDL	0.19	3.59			<MDL		
Iron (TREC)	mg/L				<MDL	4.19	122.00			1.19		
Magnesium (Dissolved)	mg/L				20.7	76.2	280.0			95.3		
Manganese (Dissolved)	mg/L				<MDL	0.018	0.155			<MDL		
Manganese (TREC)	mg/L				<MDL	0.442	11.400			0.108		
Mercury (Dissolved)	mg/L				<MDL	0.00007	0.00036			<MDL		
Selenium (Dissolved)	mg/L				<MDL	0.113	3.100			0.0141		
Sodium (Dissolved)	mg/L				22.1	291.0	1998.0			68.2		
Zinc (Dissolved)	mg/L				<MDL	0.02	0.11			<MDL		

The area of concern for monitoring point AW-9 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

Alluvial Wells AW-7 through AW-9 are located south of Old State Highway 133, near the entrance to the mine. They were installed in 1999 as the result of PR-03.

** Lab. data not provided

AW-11
Alluvial Well
Elevation - 5884
Depth - 60.86'

Initiated	12/20/2000	12/20/2000	12/20/2000	12/20/2000
Activated	2/28/2002	2/28/2002	2/28/2002	2/28/2002
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet	11.92	38.20	50.31	19.13	43.92	57.60	50.1	34.2	43.3	50.1	
Water Elevation	Feet	5833.7	5845.8	5872.1	5826.4	5840.1	5864.9	5833.9	5849.8	5840.7	5833.9	
FieldComment												
ph	su	6.7	7.3	7.5	6.9	7.6	8.3	7.66	7.86	7.7	7.66	
Conductivity	umhos/cm	390	760	1060	480	1108	1719	1678	1201	1507	1678	
Temperature	Celsius	11.2	13.4	15.7	7.5	12.9	16.1	14.5	14.4	12.6	14.5	
Lab Parameters	UNITS											
Bicarbonate	mg/L	350	367	384	177.3	319.2	536.0			473		
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	5.02	6.88			<MDL		
Chloride	mg/L	2	3	3	<MDL	38.9	255.2			56.4		
Conductivity	umhos/cm	671	850	1030	661	1114	2870			1440		
Hardness	mg/L	587	587	587	265.0	543.1	911.7			705		
Nitrate-Nitrite	mg/L	0.10	0.28	0.56	<MDL	0.72	2.70			1.92		
Ammonia	mg/L	<MDL	0.05	0.08	<MDL	0.12	0.43			<MDL		
pH	su	7.2	7.5	7.8	7.1	7.8	8.5			8.1		
Phosphate	mg/L	<MDL	0.14	0.39	<MDL	1.10	20.60			0.0558		
ResidueFilterable-TDS	mg/L	360	553	690	350	765	2150			970		
Sulfate	mg/L	20	150	250	4.94	219.01	510.00			293		
Arsenic (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.022	0.280			<MDL		
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.010	0.030			<MDL		
Calcium (Dissolved)	mg/L	70.6	92.9	110.0	30.8	128.3	765.0			125		
Iron (Dissolved)	mg/L	0.02	0.04	0.05	<MDL	0.19	2.46			<MDL		
Iron (TREC)	mg/L	0.07	4.93	9.97	<MDL	2.40	24.30			1.19		
Magnesium (Dissolved)	mg/L	46.2	64.6	75.8	37.5	109.4	748.0			95.3		
Manganese (Dissolved)	mg/L	<MDL	0.02	0.03	<MDL	0.403	5.400			<MDL		
Manganese (TREC)	mg/L	<MDL	0.34	0.57	<MDL	0.356	2.540			0.108		
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00008	0.00027			<MDL		
Selenium (Dissolved)	mg/L	<MDL	0.001	0.002	<MDL	0.011	0.116			0.0141		
Sodium (Dissolved)	mg/L	12.70	19.37	22.9	11.0	46.0	125.0			68.2		
Zinc (Dissolved)	mg/L	<MDL	0.01	0.02	<MDL	0.02	0.07			<MDL		

* Could not access site

Alluvial Wells AW-11 through AW-13 are located north of the Union Pacific Railroad. They were installed in 2000 to develop baseline data for a new train loadout.

Baseline Information for AW-11 is derived from events beginning on 12/20/00 through 2/28/02.
Point influenced by mining on 2/28/02.

AW-12
Alluvial Well
Elevation - 5878
Depth - 45.38'

Initiated	12/20/2000	12/20/2000	12/20/2000	12/20/2000
Activated	2/28/2002	2/28/2002	2/28/2002	2/28/2002
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters	UNITS	Summary Information			Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max	Min	Ave	Max			
Static Water Level	Feet	6.49	26.717	37.03	4.70	25.64	62.10	27.9	4.7	27.9	32.7		
Water Elevation	Feet	5841.0	5851.3	5871.5	5815.9	5852.4	5873.3	5850.1	5873.3	5850.1	5845.3		
FieldComment													
ph	su	7.1	7.5	7.7	6.7	7.6	8.1	7.8	7.9	7.8	7.9		
Conductivity	umhos/cm	490	567	610	485	688	1640	709.0	634.0	709.0	677.0		
Temperature	Celsius	10.4	13.0	16.1	7.6	13.0	19.0	12.5	19.0	12.5	15.2		
Lab Parameters	UNITS												
Bicarbonate	mg/L	297	336.33	371	265.95	369.07	471.43			387			
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	5.69	8.99			<MDL			
Chloride	mg/L	2	2	2	<MDL	12.5	119.0			2.03			
Conductivity	umhos/cm	548	571	609	473	754	3170			666			
Hardness	mg/L	318	318	318	237.0	356.3	674.3			341			
Nitrate-Nitrite	mg/L	0.45	0.4733	0.51	<MDL	0.69	2.15			0.42			
Ammonia	mg/L	<MDL	0.09	0.27	<MDL	0.12	0.52			<MDL			
pH	su	7.4	7.6333	7.9	7.1	7.8	8.5			8.2			
Phosphate	mg/L	<MDL	0.0167	0.05	<MDL	0.16	1.04			0.0558			
ResidueFilterable-TDS	mg/L	310	330	340	221	468	2450			370			
Sulfate	mg/L	10	13.333	20	<MDL	20.3	42.4			15.8			
Arsenic (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.011	0.140			<MDL			
Cadmium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.011	0.040			<MDL			
Calcium (Dissolved)	mg/L	51.9	54.8	57.4	3.8	160.7	677.0			77			
Iron (Dissolved)	mg/L	0.02	8.3167	24.9	<MDL	0.61	10.28			<MDL			
Iron (TREC)	mg/L	0.05	42.55	83.7	<MDL	26.42	806.00			0.618			
Magnesium (Dissolved)	mg/L	<MDL	25.433	42.4	<MDL	76.6	368.0			36.2			
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.075	0.621			<MDL			
Manganese (TREC)	mg/L	<MDL	0.864	2.050	<MDL	4.335	119.000			<MDL			
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.00008	0.00028			<MDL			
Selenium (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.005	0.060			0.00043			
Sodium (Dissolved)	mg/L	19.5	20.633	21.2	13.8	42.9	202.0			16.9			
Zinc (Dissolved)	mg/L	<MDL	0.0033	0.01	<MDL	0.02	0.08			<MDL			

* Could not access site

** Not enough water for sample/parameters

Alluvial Wells AW-11 through AW-13 are located north of the Union Pacific Railroad. They were installed in 2000 to develop baseline data for a new train loadout.

Baseline Information for AW-12 is derived from events beginning on 12/20/00 through 2/28/02.
Point influenced by mining on 2/28/02.

AW-14
Alluvial Well
Depth - 30'
Elevation - 5822
Pipe 0.78' Above Ground

Initiated	7/24/2003	7/24/2003	7/24/2003	7/24/2003
Activated	7/24/2003	7/24/2003	7/24/2003	7/24/2003
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Summary Information												
Field Parameters	UNITS	Baseline			Operation							
		Min	Ave	Max	Min	Ave	Max					
Static Water Level	Feet				4.40	7.53	12.10	7.8	6.2	4.4	6.7	
Water Elevation	Feet				5809.9	5814.5	5817.6	5814.2	5815.8	5817.6	5815.3	
FieldComment												
ph	su				6.8	7.5	8.1	7.31	7.71	7.79	7.86	
Conductivity	umhos/cm				2	1674	2790	1900	1231	1545	1252	
Temperature	Celsius				7.6	12.2	15.7	11.2	14.9	12.1	9	
Lab Parameters	UNITS											
Bicarbonate	mg/L				238.2	379.8	552.3			398		
Carbonate	mg/L				<MDL	12.4	20.0			<MDL		
Chloride	mg/L				2.0	140.5	397.0			<MDL		
Conductivity	umhos/cm				650	1623	2860			1470		
Hardness	mg/L				237.0	804.3	1770.2			650		
Nitrate-Nitrite	mg/L				<MDL	0.7	2.7			0.434		
Ammonia	mg/L				<MDL	0.66	7.61			<MDL		
pH	su				6.9	7.6	8.5			8.2		
Phosphate	mg/L				<MDL	1.10	20.40			0.0465		
ResidueFilterable-TDS	mg/L				610	1220	1950			1000		
Sulfate	mg/L				67.6	402.1	677.0			356		
Arsenic (Dissolved)	mg/L				0.0002	0.041	0.922			<MDL		
Cadmium (Dissolved)	mg/L				<MDL	0.010	0.030			0.000116		
Calcium (Dissolved)	mg/L				41.6	129.9	241.0			112		
Iron (Dissolved)	mg/L				<MDL	0.84	7.80			0.108		
Iron (TREC)	mg/L				0.27	9.25	28.10			2.09		
Magnesium-Dissolved	mg/L				7.7	141.6	914.0			90		
Manganese-Dissolved	mg/L				0.004	0.506	2.160			0.165		
Manganese (TREC)	mg/L				0.004	1.712	6.780			1		
Mercury (Dissolved)	mg/L				<MDL	0.00010	0.00052			<MDL		
Selenium (Dissolved)	mg/L				<MDL	0.018	0.116			0.00394		
Sodium (Dissolved)	mg/L				40.7	133.7	991.0			98.2		
Zinc (Dissolved)	mg/L				<MDL	0.07	0.99			0.131		

The area of concern for monitoring point AW-14 was affected by the mining operation before its establishment. Therefore all recorded monitoring events are considered operational.

* Dry

Alluvial Well AW-14 is located southwest of Pond K.

AW-15
Alluvial Well
Top of Pipe Elevation - 5972.52
Depth - 86
Pipe 0.3' Above Ground

Initiated	12/29/2003	12/29/2003	12/29/2003	12/29/2003
Activated	9/27/2004	9/27/2004	9/27/2004	9/27/2004
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters		Summary Information										
		UNITS	Baseline			Operation						
			Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet		84.86	85.27	86.00	75.00	83.55	93.70	83	83	79.9	75
Water Elevation	Feet		5886.5	5887.3	5887.7	5878.8	5889.0	5897.5	5889.52	5889.52	5892.62	5897.52
FieldComment			Dry & Damp						Dry			
ph	su					7.0	7.4	7.9		7.52	7.44	7.45
Conductivity	umhos/cm					5	4518	5300		4790	4790	4730
Temperature	Celsius					8.4	14.5	19.1		19.1	14.6	15.6
Lab Parameters												
		UNITS										
Bicarbonate	mg/L					507.3	621.1	750.0			693	
Carbonate	mg/L					<MDL	5.61	6.88			<MDL	
Chloride	mg/L					119.91	254.54	418.00			280	
Conductivity	umhos/cm					4416	4714	5412			4600	
Hardness	mg/L					292.0	1198.2	1520.0			1520	
Nitrate-Nitrite	mg/L					<MDL	6.06	11.30			3.94	
Ammonia	mg/L					0.269	0.458	0.647			<MDL	
pH	su					7.11	7.95	8.36			8.2	
Phosphate	mg/L					0.02	0.08	0.14			0.024	
ResidueFilterable-TDS	mg/L					3388.0	3882.3	4793.3			3760	
Sulfate	mg/L					1563.7	1926.02	2786.42			1800	
Arsenic	mg/L					<MDL	0.012	0.019			0.00024	
Cadmium	mg/L					<MDL	0.010	0.030			0.000057	
Calcium	mg/L					46.50	181.56	231.80			222	
Iron (Dissolved)	mg/L					0.07	1.20	2.84			<MDL	
Iron (TREC)	mg/L					1.56	4.06	9.22			9.22	
Magnesium (Dissolved)	mg/L					42.7	180.8	234.0			234	
Manganese (Dissolved)	mg/L					0.007	0.201	0.664			0.092	
Manganese (TREC)	mg/L					0.060	0.247	0.701			0.241	
Mercury	mg/L					0.00003	0.00006	0.00010			<MDL	
Selenium	mg/L					0.039	0.057	0.077			0.0538	
Sodium	mg/L					428.25	758.85	1510.00			643	
Zinc	mg/L					0.018	0.047	0.070			<MDL	

*Not enough water for field or lab parameters

** Not enough water for lab sample

Alluvial Wells AW-15 through AW-17 are located north of Old State Highway 133, below the GOB Pile.

Baseline Information for AW-15 is derived from events beginning on 12/29/03 through 9/27/04.
Point influenced by mining on 9/27/04.

AW-16
Alluvial Well
Top of Pipe Elevation - 5964.67
Depth - 75
Pipe 0.8' Above Ground

Initiated	12/29/2003	12/29/2003	12/29/2003	12/29/2003
Activated	9/27/2004	9/27/2004	9/27/2004	9/27/2004
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

Field Parameters	UNITS	Summary Information									
		Baseline			Operation						
		Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet	68.00	69.23	70.48	61.65	72.68	83.40	73.6	68.2	69	73.6
Water Elevation	Feet	5894.2	5895.4	5896.7	5881.3	5892.0	5903.0	5891.07	5896.47	5895.67	5891.07
FieldComment								Dry			
ph	su	7.9	7.9	7.9	7.0	7.5	8.6		7.51	7.51	
Conductivity	umhos/cm	740	740	740	7	3942	8510		7.07	7200	
Temperature	Celsius	13.7	13.7	13.7	9.9	13.7	16.9		16.6	14.3	
Lab Parameters	UNITS										
Bicarbonate	mg/L				558.0	695.6	867.0			867	
Carbonate	mg/L				<MDL	<MDL	<MDL			<MDL	
Chloride	mg/L				43.6	82.7	150.0			150	
Conductivity	umhos/cm				5313.4	6240.9	6970.0			6970	
Hardness	mg/L				2304.4	2764.4	3230.0			3230	
Nitrate-Nitrite	mg/L				<MDL	3.67	5.85			5.85	
Ammonia	mg/L				<MDL	2.1	4.0			0.24	
pH	su				7.7	8.0	8.2			8.2	
Phosphate	mg/L				0.21	1.22	2.84			0.21	
ResidueFilterable-TDS	mg/L				5604	6073	6680			6680	
Sulfate	mg/L				2903.8	3289.8	3970.0			3970	
Arsenic	mg/L				0.001	0.056	0.146			0.00061	
Cadmium	mg/L				0.034	0.042	0.050			<MDL	
Calcium	mg/L				328.8	373.9	434.0			434	
Iron (Dissolved)	mg/L				0.08	0.16	0.31			0.314	
Iron (TREC)	mg/L				0.12	11.49	20.04			14.3	
Magnesium (Dissolved)	mg/L				380.3	450.8	520.0			520	
Manganese (Dissolved)	mg/L				0.0	0.192	0.510			0.061	
Manganese (Total)	mg/L				0.0	0.819	2.240			0.204	
Mercury	mg/L				0.00005	0.00006	0.00007			<MDL	
Selenium	mg/L				0.009	0.019	0.040			0.00946	
Sodium	mg/L				181.8	801.4	1356.5			866	
Zinc	mg/L				0.02	0.24	0.57			0.13	

Alluvial Wells AW-15 through AW-17 are located north of Old State Highway 133, below the GOB Pile.

*Just enough water for field parameters

**Not enough water for parameters

Baseline Information for AW-16 is derived from events beginning on 12/29/03 through 9/27/04.
Point influenced by mining on 9/27/04.

AW-17
Alluvial Well
Top of Pipe Elevation - 5950.81
Depth - 62
Pipe Flush with Ground

Initiated	12/29/2003	12/29/2003	12/29/2003	12/29/2003
Activated	9/27/2004	9/27/2004	9/27/2004	9/27/2004
Date	11/16/2023	9/27/2023	5/25/2023	3/27/2023

		Summary Information									
		Baseline			Operation						
Field Parameters	UNITS	Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet	38.40	46.51	59.00	26.40	55.12	68.60	52.9	52.9	47.3	37.2
Water Elevation	Feet	5891.8	5904.3	5912.4	5882.2	5895.7	5924.4	5897.91	5897.91	5903.51	5913.61
FieldComment								*			
ph	su	8.5	8.9	9.7	7.1	7.7	8.4	7.71	7.76	8.07	7.78
Conductivity	umhos/cm	200	264	320	870	3188	5380	3980	5380	2340	2050
Temperature	Celsius	1.9	7.1	12.2	9.2	12.1	19.8	11	12.5	9.2	10.1
Lab Parameters	UNITS										
Bicarbonate	mg/L	114.6	114.6	114.6	162.54	330.33	641.70			201	
Carbonate	mg/L	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL			4	
Chloride	mg/L	2.57	2.57	2.57	14.7	121.2	224.7			40.8	
Conductivity	umhos/cm	271.7	271.7	271.7	827	3056	5230			2220	
Hardness	mg/L	76	76	76	326	1034	1836			599	
Nitrate-Nitrite	mg/L	3.05	3.05	3.05	<MDL	1.62	4.07			1.31	
Ammonia	mg/L	2.78	2.78	2.78	<MDL	0.45	0.83			<MDL	
pH	su	8.5	8.5	8.5	6.9	7.7	8.3			8.3	
Phosphate	mg/L	<MDL	<MDL	<MDL	<MDL	0.046	0.100			0.0434	
ResidueFilterable-TDS	mg/L	185	185	185	0	2350	4046			0.014	
Sulfate	mg/L	2.1	2.1	2.1	126.36	1268.81	2230.00			983	
Arsenic (Dissovled)	mg/L	0.016	0.016	0.016	<MDL	0.014	0.032			<MDL	
Cadmium (Dissolved)	mg/L	0.0003	0.0003	0.0003	<MDL	0.019	0.060			0.000124	
Calcium (Dissolved)	mg/L	17.26	17.26	17.26	71.9	204.0	358.8			151	
Iron (Dissolved)	mg/L	0.029	0.029	0.029	0.016	0.158	0.832			<MDL	
Iron (TREC)	mg/L	0.117	0.117	0.117	0.090	1.052	10.350			0.472	
Magnesium (Dissolved)	mg/L	8.09	8.09	8.09	35.50	126.52	228.25			53.8	
Manganese (Dissolved)	mg/L	<MDL	<MDL	<MDL	<MDL	0.011	0.023			<MDL	
Manganese (TREC)	mg/L	0.041	0.041	0.041	0.007	18.215	236.000			<MDL	
Mercury (Dissolved)	mg/L	<MDL	<MDL	<MDL	0.00002	0.00006	0.00013			<MDL	
Selenium (Dissolved)	mg/L	0.014	0.014	0.014	0.004	0.016	0.046			0.0268	
Sodium (Dissolved)	mg/L	12	12	12	40.60	292.74	565.00			299	
Zinc (Dissolved)	mg/L	0.005	0.005	0.005	0.010	0.020	0.036			<MDL	

Alluvial Wells AW-15 through AW-17 are located north of Old State Highway 133, below the GOB Pile.

* Not enough water for field or lab parameters

**Not enough water for lab sample

Baseline Information for AW-17 is derived from events beginning on 12/29/03 through 9/27/04.
Point influenced by mining on 9/27/04.

P-1
 Stevens Draw - Pond 1
 Depth - 5'
 Elevation - 7080

Date	10/9/2023	9/5/2023	5/23/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0	0	0
Freeboard	FT	0	0	0
Water Depth	FT	0	0	0
Water Level	%	0	0	0
Field Comments		Dry	Dry	Dry

Pond 1 (P-1) results from the discharge of Spring 14 (S-14) and is located in Stevens Draw location of DH-15, DH-39 and the Lower Stevens Draw monitoring point.



1Q site inaccessible due to snow

P-2
 Freeman Gulch - Pond 2
 Depth - 3'
 Elevation - 7600

Date	11/20/2023	9/5/2023	6/7/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0	0	0
Freeboard	FT	3	3	4
Water Depth	FT	0	0	0
Water Level	%	0	0	0
Field Comments		No discharge	No discharge	No discharge

Pond 2 (P-2) is located in Freeman Gulch, near the Upper Freeman Gulch monitoring point and is fed by the discharge of Spring 3 (S-3).



Note: Site in accessible 1Q due to snow levels

Date	10/10/2023	9/11/2023	6/13/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0	0	0
Freeboard	FT	5	3.5	4.5
Water Depth	FT	1.5	3	2
Water Level	%	21	43	29
Field Comments		Dry	Dry	Dry

Pond 3 (P-3) is located in an un-named gulch which leads to Terror Creek. This pond is fed by Spring 16 (S-16) and is accessible by a road that passes Pond 4 (P-4). This road is not shown on the map.



Note: Site in accessible 1Q due to snow levels

P-4
 Terror Creek - Pond 4
 Depth - 3.5'
 Elevation - 7880

Date	10/10/2023	9/11/2023	6/13/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0	0	0
Freeboard	FT	0.25	0.1	0.2
Water Depth	FT	3.25	3.4	3.3
Water Level	%	93	97	94
Field Comments				

Pond 4 (P-4) is located in an un-named gulch which leads to Terror Creek. This pond receives water from Springs 4 (S-4) and 4a (S-4a). It is accessible by an old exploration road.



Note: Site in accessible 1Q due to snow levels

P-5
 Sheep Corral - Pond 5
 Depth - 8'
 Elevation - 7800

Date	10/10/2023	9/11/2023	6/13/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0	0	0
Freeboard	FT	4.5	3.5	3.5
Water Depth	FT	3.5	4.5	4.5
Water Level	%	44	56	56
Field Comments				

Pond 5 (P-5) is located in an un-named gulch which feeds into Sheep Corral Gulch. This pond is fed by Springs 5 (S-5), 5a (S-5a) and 5b (S-5b) and is accessible by an old coal exploration road.



Note: Site in accesible 1Q due to snow levels

P-6
 Terror Creek - Pond 6
 Depth - 3'
 Elevation - 7880

Date	10/10/2023	9/21/2023	6/14/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Pond Outflow	GPM	0.0	0.0	0.0
Freeboard	FT	3.0	3.0	3.0
Water Depth	FT	0	0	0
Water Level	%	0.00	0.00	0.00
Field Comments		Dry	Dry	Dry

Pond 6 (P-6) is located in an un-named gulch which leads to Terror Creek. This pond receives water from Spring 18 (S-18).



Note: Site in accessible 1Q due to snow levels

P6-5
W. Fork of Terror Creek - Pond 6-5
Elevation - 8020

Initiated	7/19/1985	7/19/1985	7/19/1985
Activated			
Date	10/9/2023	8/28/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.00	0.10	2.56				0.0	0.0	0.0
Inflow	GPM	0.00	0.00	0.00				0.0	0.0	0.0
Freeboard	Feet							5.5	4.5	0.8
Temperature	Celsius	12.7	15.6	24.7						
Conductivity	umhos/cm	280	452	791						
pH	su	6.2	7.8	8.5						
Field Comments										
Lab Parameters	UNITS									
Bicarbonate	mg/L	164.7	290.7	420.9						
Carbonate	mg/L									
Chloride	mg/L	1	6	11						
Conductivity	umhos/cm	285	446	629						
Hardness	mg/L	127	199	320						
pH	su	7.3	7.5	7.9						
ResidueFilterable-TDS	mg/L	22	240	432						
ResidueNonFilterable-TSS	mg/L	10	185	830						
SAR		0.43	0.56	0.9						
Sulfate	mg/L	<MDL	7.7	14.0						
Calcium (Dissolved)	mg/L	31	50	74						
Magnesium (Total)	mg/L	12	22	33						
Sodium (Dissolved)	mg/L	13	19	29						
Potassium	mg/L									
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P6-5 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site in accessible 1Q due to snow levels

P7-2
Steven's Gulch - Pond 7-2
Elevation - 8190

Initiated	7/29/1985	7/29/1985	7/29/1985
Activated	6/10/2014	6/10/2014	6/10/2014
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation				
		Min	Ave	Max					
Outflow	GPM	0	0.67	15.39	11.25		11.25		
Inflow	GPM	0	0.27	3.75	0.00		0.00		
Freeboard	Feet	0	1.32	3.42	6.50		6.50	5.5	5
Temperature	Celsius	10	16.71	27.80	15.10		15.10		
Conductivity	umhos/cm	160	248.77	321.00	170.00		170.00		
pH	su	7.2	8.46	9.70	7.7		7.7		
Field Comments								No flow	
Lab Parameters	UNITS								
Bicarbonate	mg/L	119.6	158.9	223.0					
Carbonate	mg/L								
Chloride	mg/L	<MDL	2.7	5.0					
Conductivity	umhos/cm	204.0	251.3	320.0					
Hardness	mg/L	92.0	117.0	142.0					
pH	su	6.8	7.5	8.3					
ResidueFilterable-TDS	mg/L	118.0	169.7	234.0					
ResidueNonFilterable-TSS	mg/L	10.0	100.0	538.0					
SAR		0.20	0.41	1.00					
Sulfate	mg/L	<MDL	11.3	49.0					
Calcium (Dissolved)	mg/L	22.0	27.9	35.0					
Magnesium (Total)	mg/L	9.0	11.5	15.0					
Sodium (Dissolved)	mg/L	5.0	10.0	22.0					
Potassium	mg/L								
TDS Ratio (grav./calc.)									

Activated 6/10/14

Note: Site in accesible 1Q due to snow levels

P7-7
Steven's Gulch - Pond 7-7
Elevation - 8380

Initiated	7/25/1985	7/25/1985	7/25/1985
Activated			
Date	10/9/2023	8/31/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Inflow	GPM	0.0	0.0	0.0						
Outflow	GPM	0.0	0.2	5.0				3	5	1.5
Freeboard	Feet	0.00	1.85	4.80						
Temperature	Celsius	3.1	14.6	27.1						
Conductivity	umhos/cm	227.0	381.2	829.0						
pH	su	6.4	7.6	8.1						
Field Comments								Dry		
Lab Parameters	UNITS									
Bicarbonate	mg/L	126.9	190.5	244.0						
Carbonate	mg/L									
Chloride	mg/L	<MDL	1.6	3.0						
Conductivity	umhos/cm	219.0	303.1	460.0						
Hardness	mg/L	117.0	151.2	183.0						
pH	su	6.4	7.3	7.9						
ResidueFilterable-TDS	mg/L	142.0	204.8	276.0						
ResidueNonFilterable-TSS	mg/L	2.0	65.1	252.0						
SAR		0.2	0.4	1.0						
Sulfate	mg/L	<MDL	6.8	10.0						
Calcium (Dissolved)	mg/L	24.0	34.8	42.0						
Magnesium (Total)	mg/L	11.0	15.6	19.0						
Sodium (Dissolved)	mg/L	4.0	10.8	29.0						
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P7-7 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

*Dam Gone

** Data not provided in field notes

Note: Site in accesible 1Q due to snow levels

P7-11
Steven's Gulch - Pond 7-11
Elevation - 8400

Initiated	7/25/1985	7/25/1985	7/25/1985
Activated			
Date	10/9/2023	8/31/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.00	0.16	7.99				0	0	0
Inflow	GPM	0.00	0.18	7.99				0	0	0
Freeboard	Feet	0.00	1.32	2.61						
Temperature	Celsius	3.6	15.9	29.9						
Conductivity	umhos/cm	138	288	495						
pH	su	6.4	7.6	9.2						
Field Comments								Dry	Dry	Dry-Breached
Lab Parameters	UNITS									
Bicarbonate	mg/L	105	320	2116						
Carbonate	mg/L	<MDL	<MDL	<MDL						
Chloride	mg/L	<MDL	3	4						
Conductivity	umhos/cm	202	262	346						
Hardness	mg/L	79	122	172						
pH	su	6.3	7.4	8.3						
ResidueFilterable-TDS	mg/L	144	190	260						
ResidueNonFilterable-TSS	mg/L	2	277	3033						
SAR		0.34	0.54	1.78						
Sulfate	mg/L	<MDL	18	121						
Calcium (Dissolved)	mg/L	3.66	26.50	41.00						
Magnesium (Total)	mg/L	7.0	12.4	19.7						
Sodium (Dissolved)	mg/L	8	13	42						
TDS Ratio (grav./calc.)		1.01	1.04	1.07						

The area of concern for monitoring point P7-11 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site in accesible 1Q due to snow levels

P8-4
Terror Creek - Pond 8-4
Elevation - 6980

Initiated	1987	1987	1987
Activated			
Date	11/20/2023	8/31/2023	6/12/2023

Summary Information										
Field Parameters	UNITS	Baseline								
		Min	Ave	Max						
Outflow	GPM	0.0	0.0	0.0				0	0	0
Inflow	GPM	0.0	0.09	0.94				0	0	0
Freeboard	Feet	0.35	0.38	0.41						
Temperature	Celsius	6.8	10.8	18.3						
Conductivity	umhos/cm	1140	1188	1220						
pH	su	8.4	8.5	8.6						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L									
Chloride	mg/L									
Conductivity	umhos/cm									
Hardness	mg/L									
pH	su									
ResidueFilterable-TDS	mg/L									
ResidueNonFilterable-TSS	mg/L									
SAR										
Sulfate	mg/L									
Calcium (Dissolved)	mg/L									
Magnesium (Total)	mg/L									
Sodium (Dissolved)	mg/L									
Potassium	mg/L									
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P8-4 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site in accesible 1Q due to snow levels

P12-1
Steven's Gulch - Pond 12-1
Elevation -7950

Initiated	7/30/1985	7/30/1985	7/30/1985
Activated	4/1/2014	4/1/2014	4/1/2014
Date	11/14/2023	9/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.00	0.29	3.75	9.375	0.3472	9.375	0	0	0
Inflow	GPM	0.00	0.00	0.00	3.75	0.1442	3.75	0	0	0
Freeboard	Feet	0.00	1.58	3.35	7.10	2.62	7.10		7.1	1.5
Temperature	Celsius	5.9	17.7	28.8	15.2		15.2			
Conductivity	umhos/cm	283	360	493	260		260			
pH	su	6.6	8.2	10.8	7.9		7.9			
Field Comments								Dry		
Lab Parameters	UNITS									
Bicarbonate	mg/L	88.0	168.4	269.6						
Carbonate	mg/L	12.4	12.4	12.4						
Chloride	mg/L	<MDL	4.5	7.0						
Conductivity	umhos/cm	256	341	487						
Hardness	mg/L	86.0	122.9	159.0						
pH	su	7.1	7.8	8.9						
ResidueFilterable-TDS	mg/L	154	215	288						
ResidueNonFilterable-TSS	mg/L	<MDL	38	160						
SAR		0.600	0.943	1.550						
Sulfate	mg/L	4.0	36.5	109.0						
Calcium (Dissolved)	mg/L	28.0	35.8	49.0						
Magnesium (Total)	mg/L	4.0	10.3	14.0						
Sodium (Dissolved)	mg/L	16.0	24.8	41.0						
TDS Ratio (grav./calc.)										

Note: Site in accesible 1Q due to snow levels

Activated 4/1/14

P12-10
Steven's Gulch - Pond 12-10
Elevation - 7820

Initiated	7/30/1985	7/30/1985	7/30/1985
Activated			
Date	11/14/2023	9/28/2023	6/12/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.0	1.7	48.066				0	0	0
Inflow	GPM	0.0	0.3	15.00				0	0	0
Freeboard	Feet									1.8
Temperature	Celsius	4.4	16.8	25.5						
Conductivity	umhos/cm	270	347	466						
pH	su	6.7	8.2	10.4						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L	122	188.8	309						
Carbonate	mg/L	6	9	12						
Chloride	mg/L	<MDL	6.3	17						
Conductivity	umhos/cm	217	333	463						
Hardness	mg/L	98	146	209						
pH	su	7.6	8.2	9.8						
ResidueFilterable-TDS	mg/L	146	208	288						
ResidueNonFilterable-TSS	mg/L	<MDL	26.6	120						
SAR		<MDL	0.73	1.07						
Sulfate	mg/L	4	19	41						
Calcium (Dissolved)	mg/L	28	37	48						
Magnesium (Total)	mg/L	6	13	29						
Sodium (Dissolved)	mg/L	9	20	32						
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P12-10 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Corrected monitoring information from 4/28/10 to 11/29/11.

Contractor has been monitoring Pond 12-9 as 12-10, but realized his error during 4/10/12 monitoring.

Found remnants of Pond 12-10 on 4/10/12 - has been washed out for a long time. No evidence of flow.

Note: Site in accesible 1Q due to snow levels

P12-2
Steven's Gulch - Pond 12-2
Elevation - 8030

Initiated	7/6/1983	7/6/1983	7/6/1983
Activated	5/15/2014	5/15/2014	5/15/2014
Date	10/9/2023	8/31/2023	6/14/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0	0.31	4.94	1.25		1.25		0	0
Inflow	GPM	0	0.19	0.38	0.00		0.00		0	0
Freeboard	Feet	0	0.10	0.56	6.00		6.00	6		2
Temperature	Celsius	5.4	16.33	26.30	17.20		17.20			
Conductivity	umhos/cm	239	380.35	520.00	350.00		350.00			
pH	su	6.4	8.03	9.40	7.7		7.7			
Field Comments								No Discharge	Dry	t
Lab Parameters	UNITS									
Bicarbonate	mg/L	200.0	253.6	336.0						
Carbonate	mg/L	5.9	8.85	11.80						
Chloride	mg/L	2.0	4.1	9.0						
Conductivity	umhos/cm	317	395	456						
Hardness	mg/L	144.00	192.08	238.00						
Acidity	mg/L	16.0	16.0	16.0						
pH	su	7.3	7.9	8.6						
ResidueFilterable-TDS	mg/L	168	244	292						
ResidueNonFilterable-TSS	mg/L	2	330	3332						
SAR		0.330	0.613	1.260						
Sulfate	mg/L	<MDL	19.57	113.00						
Calcium (Dissolved)	mg/L	20.0	41.7	54.0						
Iron (Total)	mg/L	1.42	1.42	1.42						
Iron (Dissolved)	mg/L	0.04	0.04	0.04						
Magnesium (Total)	mg/L	16.0	21.4	29.0						
Manganese (Total)	mg/L	0.320	0.320	0.320						
Sodium (Dissolved)	mg/L	10	19.17	36.00						
TDS Ratio (grav./calc.)	%									

Activated May 15, 2014

*Large Seep Area - Unmeasurable

Note: Site in accesible 1Q due to snow levels

P17-1
Coal Gulch - Pond 17-1
Elevation - 7340

Initiated	12/22/2004	12/22/2004	12/22/2004
Activated			
Dated	11/20/2023	9/29/2023	6/29/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.0	1.6	30				0	0	0
Inflow	GPM	0.0	0.0	0.0				0	0	0
Freeboard	Feet	0.0	0.7	5.5						
Temperature	Celsius	0.5	9.0	17.5						
Conductivity	umhos/cm	40.0	151.7	570						
pH	su	7.6	8.0	8.4						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L	40.5	56	84						
Carbonate	mg/L	<MDL	<MDL	<MDL						
Chloride	mg/L	1	3	4						
Conductivity	umhos/cm	77.8	104	146						
Hardness	mg/L	26.8	47	75						
pH	su	7.5	7.7	7.9						
ResidueFilterable-TDS	mg/L	61	80	100						
ResidueNonFilterable-TSS	mg/L	16	25	36						
SAR		0.16	0.17	0.19						
Sulfate	mg/L	<MDL	5.35	5.35						
Calcium (Dissolved)	mg/L	5.83	11.98	19.80						
Magnesium (Total)	mg/L	2.98	4.26	6.30						
Sodium (Dissolved)	mg/L	2.21	2.64	3.40						
TDS Ratio (grav./calc.)		1.07	1.36	1.82						

The area of concern for monitoring point P17-1 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site in accesible 1Q due to snow levels

P18-1
Coal Gulch - Pond 18-1
Elevation - 7760

Initiated	7/19/1985	7/19/1985	7/19/1985
Activated	6/6/2012	6/6/2012	6/6/2012
Date	11/20/2023	8/29/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max	Min	Ave	Max			
Outflow	GPM	0.00	0.20	2.11	0.00	0.05	0.94	0	0	0
Inflow	GPM	0.00	0.31	1.88	0.00	0.23	4.10	0	0	0
Freeboard	Feet	0.00	2.07	2.91	0.00	0.84	3.50			0.25
Temperature	Celsius	9.8	16.2	26.7	11.20	17.85	23.10			
Conductivity	umhos/cm	115	211	378	557.00	600.00	620.00			
pH	su	6.3	7.8	9.2	8.10	8.43	8.68			
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L	49.0	125.4	201.3						
Carbonate	mg/L	0.6	0.6	0.6						
Chloride	mg/L	<MDL	7	11						
Conductivity	umhos/cm	120	244	398						
Hardness	mg/L	54	94	153						
pH	su	6.2	7.0	7.6						
ResidueFilterable-TDS	mg/L	86	169	280						
ResidueNonFilterable-TSS	mg/L	12	178	552						
SAR		<MDL	0.21	0.47						
Sulfate	mg/L	<MDL	15	39						
Calcium (Dissolved)	mg/L	15	25	40						
Magnesium (Total)	mg/L	4	7	13						
Sodium (Dissolved)	mg/L	<MDL	5	10						
TDS Ratio (grav./calc.)										

The monitoring point for Pond 18-1 is located on a south facing slope that drains down toward the North Fork of the Gunnison River.

Note: Site in accessible 1Q due to snow levels

Initiate	7/6/1983	7/6/1983	7/6/1983
Activate			
Date	10/9/2023	8/31/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Inflow	GPM	0.00	0.26	15.708				0	0	0
Outflow	GPM	0.00	0.00	0.00				0	0	0
Freeboard	Feet	0.48	2.15	5.4						0.60
Temperature	Celsius	2.2	16.0	29						
Conductivity	umhos/cm	206	329	500						
pH	su	5.9	7.4	8.8						
Field Comments								Dry	Damp	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L	109.8	187.5	268						
Carbonate	mg/L	<MDL	<MDL	<MDL						
Chloride	mg/L	<MDL	6.45	30						
Conductivity	umhos/cm	197	324	581						
Hardness	mg/L	11	128	210						
pH	su	6.8	7.3	8.3						
ResidueFilterable-TDS	mg/L	126	211	402						
ResidueNonFilterable-TSS	mg/L	6	59	158						
SAR		0.34	0.65	1.58						
Sulfate	mg/L	<MDL	18.12	119						
Calcium (Dissolved)	mg/L	23	35	56						
Magnesium (Total)	mg/L	8	12	17						
Sodium (Dissolved)	mg/L	8	18	39						
TDS Ratio (grav./calc.)		1.05	1.05	1.05						

The area of concern for monitoring point P18-4 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site in accessible 1Q due to snow levels

P33-3
 Sheep Corral - Pond 33-3
 Depth - 5.5'
 Elevation - 7760

Date	11/20/2023	9/5/2023	6/13/2023
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Field Parameters	UNITS			
Pond Inflow	GPM	0	0	0
Freeboard	FT	6.5	6.5	6.5
Water Depth	FT	0	0	0
Water Level	%	0	0	0
Field Comments		Dry	Dry	Dry

Pond 33-3 (P33-3) is located in an un-named drainage which discharges into Sheep Corra. This pond apparently has no spring, and catches only run-off water in the early spring.



Note: Site in accessible 1Q due to snow levels

Initiated	6/14/1983	6/14/1983	6/14/1983
Activated			
Date	10/9/2023	8/31/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Inflow	GPM	0.0	0.0	0				0	0	0
Outflow	GPM	0.0	0.1	4.488				0	0	0
Freeboard	Feet	0.18	1.06	2.55						1
Temperature	Celsius	4.2	16.9	29						
Conductivity	umhos/cm	62.0	247.1	968						
pH	su	7.0	8.3	9.8						
Field Comments								Dry	Dry	
Lab Parameters	UNITS									
Bicarbonate	mg/L	53.7	140.7	478.2						
Carbonate	mg/L									
Chloride	mg/L	<MDL	20.0	120						
Conductivity	umhos/cm	95.0	271.8	885						
Hardness	mg/L	44.0	103.3	331						
pH	su	6.3	7.2	8						
ResidueFilterable-TDS	mg/L	90.0	200.5	372						
ResidueNonFilterable-TSS	mg/L	14.0	125.0	624						
SAR		0.1	0.4	1.74						
Sulfate	mg/L	<MDL	19.6	62						
Calcium (Dissolved)	mg/L	11.0	25.3	83						
Magnesium (Total)	mg/L	3.0	9.7	30						
Sodium (Dissolved)	mg/L	1.0	10.8	50						
Potassium	mg/L									
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P81 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

* Data not provided in field notes

Note: Site in accesible 1Q due to snow levels

P82
Steven's Gulch - Pond 82
Elevation - 7580

Initiated	7/18/1990	7/18/1990	7/18/1990
Activated			
Date	10/9/2023	8/29/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.00	0.09	4.90				0	0	0
Inflow	GPM	0.00	0.00	0.00				0	0	0
Freeboard	Feet	0.00	1.45	5.50						0.6
Temperature	Celsius	7.8	17.9	28.0						
Conductivity	umhos/cm	91	237	569						
pH	su	6.4	8.5	10.0						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
		Min	Ave	Max						
Bicarbonate	mg/L	51.2	134	290						
Carbonate	mg/L	1	1	1						
Chloride	mg/L	<MDL	8	25						
Conductivity	umhos/cm	104	258	623						
Hardness	mg/L	36	89	158						
pH	su	6.4	7.1	8.4						
ResidueFilterable-TDS	mg/L	75	225	566						
ResidueNonFilterable-TSS	mg/L	28	155	450						
SAR		<MDL	0.22	0.49						
Sulfate	mg/L	4	22	78						
Calcium (Dissolved)	mg/L	11	24	45						
Magnesium (Total)	mg/L	2	7	13						
Sodium (Dissolved)	mg/L	<MDL	5	14						
Potassium	mg/L									
TDS Ratio (grav./calc.)										

The area of concern for monitoring point P82 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

* Data not provided in field notes

Note: Site in accesible 1Q due to snow levels

P83
Coal Gulch - Pond 83
Depth - 2.5'
Elevation -7820

Initiated	7/18/1983	7/18/1983	7/18/1983
Activated	7/15/2013	7/15/2013	7/15/2013
Date	10/9/2023	8/29/2023	6/15/2023

Summary Information

Field Parameters	UNITS	Baseline			Operation					
		Min	Ave	Max						
Outflow	GPM	0.00	0.18	6.24	0.00	0.00	0.00	0	0	0
Inflow	GPM	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Freeboard	Feet	0.50	2.23	2.54	0.50	2.16	2.54			0.5
Temperature	Celsius	9.4	18.6	27.8						
Conductivity	umhos/cm	148	354	485						
pH	su	6.9	74.7	803.0						
Field Comments								Dry	Dry	Dry
Lab Parameters	UNITS									
Bicarbonate	mg/L	75.6	203.8	280.6						
Carbonate	mg/L	39.5	39.5	39.5						
Chloride	mg/L	<MDL	7	14						
Conductivity	umhos/cm	160	357	499						
Hardness	mg/L	70	162	234						
pH	su	6.9	7.8	9.4						
ResidueFilterable-TDS	mg/L	95	202	270						
ResidueNonFilterable-TSS	mg/L	4	77	536						
SAR		0.21	0.42	0.71						
Sulfate	mg/L	<MDL	14	29						
Calcium (Dissolved)	mg/L	13	30	54						
Magnesium (Total)	mg/L	6	21	29						
Sodium (Dissolved)	mg/L	4	13	21						
Potassium	mg/L									
TDS Ratio (grav./calc.)										

* No data provided in field notes

Note: Site in accesible 1Q due to snow levels

2023 MAPS



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