### 2024 ANNUAL HYDROLOGIC REPORT



BOWIE RESOURCES, LLC BOWIE NO. 1 MINE P.O. BOX 483 PAONIA, COLORADO 81428 PERMIT C-1981-038

### PREPARED BY:



### ANNUAL HYDROLOGY REPORT

### <u>2024</u>

Bowie No. 1 Mine Bowie Resources, LLC Paonia, Colorado

### Introduction

Bowie Resources Limited acquired the Orchard Valley Mine from the Cyprus Orchard Valley Coal Corporation in December 1994. Bowie Resources Limited was acquired by Bowie Resources, LLC in December 2003. The underground coal mine (renamed the Bowie No. 1 Mine) is approximately two miles north of Paonia, Colorado. The Bowie No. 1 East Mine has not operated since it was sealed in June 1986, following a mine fire. The areal extent of the East Mine workings was 1,156 acres at that time. During July 1993, rehabilitation efforts at the portal area of the East mine were completed and the mine workings of the East and West mines were connected. Only the first fifteen crosscuts of the East mine were reopened with the rest of the mine remaining sealed and inactive. Mining ceased at the Bowie No. 1 Mine on December 4, 1997.

The coal mined from both the East and West mine is in the "**B**" seam of the Mesaverde Coal Member. Hydrologic monitoring began at the mine in 1983. The area affected by mining was reduced to 2,714 acres with the approval of permit revision no. 4 since some of the East mine workings are incorporated into the Bowie No. 2 Mine permit boundary. This report presents monitoring results from the 2024 monitoring season.

The Bowie No. 1 Mine has been idle for more than 20 complete monitoring seasons (1998 - 2024). Several monitoring points are no longer available for monitoring due to a mechanical collapse of drill holes. Bowie No. 1 received permission through a revision to the permit document (TR-34) to eliminate these holes from the monitoring schedule.

The approval of permit revision no. 4 transferred a number of monitoring points from the Bowie No. 1 Mine to the Bowie No. 2 Mine. Terror Creek Monitoring stations SW-1, SW-2, SW-4 and SW-10 were transferred. Stevens Gulch ponds 81, 7-2, 7-7, 7-11, 12-1, 12-2, 12-9, 12-10, 12-11, 18-4, 82, 1-4 and 1-6 were transferred. Terror Creek ponds 1-11, 6-2, 6-5, and 8-4 were transferred. Coal Gulch ponds 17-1, 18-1 and 83 were transferred. Stevens Gulch Springs 19, 23, 7-4, 7-5 and 12-4 were transferred. Terror Creek Springs 16, 17, 18, 20, 21, 22, 1-3, 1-5, 5-1, 6-1, 6-4, 6-6, 7-1, 7-9, 7-10 and 8-5 were transferred. Groundwater monitoring wells CWI DH-58 and DH-60 were also transferred. All of the stations transferred except SW-10 and spring 20 were inactive monitoring points for the Bowie No. 1 mine

The following 2024 Annual Hydrology Report narrative is divided into ten parts. Discussion is presented by each monitoring category identified in Table 1 - Summary of Hydrologic Monitoring Stations - Required Monitoring for Annual Hydrology Report.

Table 1 (immediately following this narrative) defines the monitoring points by type and sample frequency, field parameter sampling schedule and laboratory parameter sampling schedule. Several monitoring points have been removed from the surveillance schedule and are noted on this table as such. B04 was removed as a monitoring point by technical revision number 55. Twenty-four monitoring points were permanently suspended with the approval of TR-61 (approved September 1, 2016), those points are shown on Table 1.

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 analyses are performed by ACZ Laboratories, INC., 2773 Downhill Dr, Steamboat Springs, CO 80407 or by Enviro-Chem Analytical, Inc., 2493 Hwy 6 & 50, Unit 7, Grand Junction, CO 81505.

Table 3 contains local precipitation data. This data is available from the internet at <u>www.wrcc.dri.edu/summary/Climsmco.html</u> select Paonia 1 SW (056306), however, data is no longer being recorded at that site. The average precipitation for the period of record (1893 through 2016) was 15.39 inches. No Precipitation data was collected during 2023. Data recorded at the Bowie no. 2 mine site through December 31, 2024 is 12.99 inches. That number does not necessarily reflect the total snowfall received at the mine, during the 2023 water year.

Table 4 contains a listing of all monitoring points that have been undermined by the Bowie No. 1 Mine, the date of mining, and the panel or section that undermined them.

Table 5 contains a listing of all monitoring points that are potentially impacted by the angle of draw of the underground workings of the Bowie No. 1 Mine. Since the mine has been reclaimed, no prediction of potential monitoring point impacts is presented.

Table 6 contains a listing of all actively monitored points, with descriptions of their locations and a reference to the Monitoring Point Figure that contains this year's monitoring data.

Ponds were sampled for water quality when discharging or inflows/outflows were occurring. Ponds in the permit area 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. The six remaining ponds at the East Mine were reclaimed during the fall of 2018.

This report includes data collected specifically to meet requirements of the Division of Reclamation, Mining and Safety (DRMS). At the request of the DRMS, minimum, maximum and average baseline data are now presented on each monitoring point listing as well as minimum, maximum and average values for the operational period of the monitoring point and baseline periods where applicable. The baseline values are taken from all recorded sampling events until affected by the mining operation, with operational values reflecting the period following the baseline period.

### **OVEM Groundwater Monitoring Wells:**

Wells B05, B06 and B08 were removed from the monitoring schedule by TR-61 and will no longer be monitored. Groundwater monitoring wells B01, B02, and B04 are near the East Mine facilities (see Map No. 8-1). Well B01 was destroyed by a dozer doing maintenance work during 2002 so it is no longer monitored. Well B02 was destroyed by a dozer doing reclamation work during 2008 so it is no longer monitored. Well B03 is blocked and can no longer be monitored for field parameters or water quality. It was removed from the sampling regime by TR-34. Well B04 was destroyed by construction activities late in 2012. Well B04 was removed from the monitoring schedule by TR-55. Borehole B-7, also referred to as Node 22, is located below sedimentation pond #4 and is periodically monitored for water quality to ascertain potential groundwater contamination attributable to the East Mine facilities area. Well B07 was dry all four quarters of 2024.

### **OVWM Groundwater Monitoring Wells:**

One piezometer (OVWM) was installed in the fill at the Orchard Valley West Mine. This well was destroyed during mine reclamation so it is no longer monitored.

### North Fork Alluvium Groundwater Monitoring Wells:

Three (3) wells, MW-1, MW-2 and MW-3 (see Map No. 8-3) are completed in the North Fork of the Gunnison alluvium. During the year, the wells were monitored quarterly for water levels and showed typical seasonal fluctuations within previously established ranges. MW-1 and MW-3 were monitored quarterly for quality during the year, if water was available, to monitor potential groundwater effects stemming from the coal stockpile and load out facilities in the North Fork Valley. Well MW-3 is southwest of the coal stockpile area in a location that should see the full impact of any potential groundwater degradation. The 2024 data continues to show that the stockpile and load-out are not degrading the water in the alluvium.

### East Roatcap Creek Colluvium Groundwater Monitoring Wells:

Wells SM-05, 06, 07, 10 and 11 were permanently suspended with the approval of TR-61 and will no longer be part of the monitoring program.

### Steven's Gulch Colluvium Groundwater Monitoring Wells:

The wells (SM-1 and SM-9) have been permanently suspended with the approval of TR-61 and will no longer be part of the monitoring program.

### **Surface Water Monitoring Stations - SPRINGS**

*East Roatcap Creek* - Two springs were monitored in the East Roatcap Creek drainage (refer to Table 1 and Map No. 4-1) during the year. Spring 30 had no flow during the water year. Field parameters were obtained during the second quarter, but there was no visible flow.. Spring 30 was first undermined in April 1983. Spring 10-10 was dry during the reporting period. Spring 10-10 was encompassed by the angle-of-draw of Panel Y during October 1993. Subsidence impacts were not apparent at either of these locations during 2024.

West Roatcap Creek - Spring 32 has been permanently suspended with the approval of TR-61 and will no longer be part of the monitoring program. Two springs were monitored in the West Roatcap Creek drainage (refer to Table 1 and Map No. 4-1) during the year. Spring 14-4 was monitored quarterly and was dry/dampduring the year. No mining occurred during the year in the Spring14-4 watershed.

Stevens Gulch - One spring was monitored within the Stevens Gulch drainage (refer to Table 1 and Map No. 4-1) during the year. Spring 25 lies below an area of the East mine inactive since 1982. This site had no measurable flows during the year. Spring 25 has been identified as an adjudicated water right within the permit area.

Two springs with ponds in the Stevens Gulch drainage, Spring and Pond 13-5, Spring and Pond 13-6 were monitored quarterly during the year. Spring and Pond 13-5 was undermined during the last half of 1992. Spring and Pond 13-6 was undermined during the end of 1988. Springs 13-5 and 13-6 were dry during the year.

### Surface Water Monitoring Stations: STREAMS AND DITCHES

Overall, adverse impacts attributable to mining were not evident at any of the monitored surface water stations (refer to Table 1 and Map No. 4-1). Stations SW-5 (Stevens Gulch) was drying during the monitoring period. SW-6 (East Roatcap Creek) had a small flow during the second quarter and laboratory samples were obtain. Lab data was consistent with historical averages. No evidence of subsidence impacts in these drainages was apparent. Mining occurred in the Stevens Gulch drainage upstream of site SW-5 during 1993 in Panel C. Panel C mining was designed and conducted to prevent the development of subsidence to protect the waterway and certain structures in the vicinity. Data collected during the year shows these protective measures were successful.

### Surface Water Monitoring Stations: SMALL AREA EXEMPTIONS

The west side of the east mine fan level is defined as a small area exemption since drainage from this area is not conveyed to a sediment pond. One sample point is defined at this location and sampled for conformance with the NPDES discharge alternative limitations requirements associated with discharges occurring because of precipitation events of less than the 10-year and 24-hour magnitude. In these instances, settable solids and pH limitation must be met. No samples were collected during 2024 from this SAE point.

### **Coal Member of Mesaverde:**

All previously monitored drill holes have now collapsed and are no longer monitored. The removal of these monitoring points is explained in TR-34.

### Surface Water Monitoring Stations: PONDS

East Roatcap Creek - Ponds 1001, 1002, 1003, 1004, 1007, 1009, 1014, 1501, 8700, 8800 and 8900 were permanently suspended with the approval of TR-61 and will no longer be part of the monitoring program.

Stevens Gulch -. Ponds 1307 and 8500 were permanently suspended with the approval of TR-61 and will no longer be part of the monitoring program.

### **CDPS Monitoring Points**

DMRs are submitted quarterly 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.

### Conclusion

Hydrologic monitoring was extended into the northern portion of the East Roatcap Creek drainage during 1993 to fit newly acquired lease areas and revised mine plans. Mining operations were suspended during December 1997 and have not resumed. Hydrologic monitoring conducted during 2024 did not show mine related impacts to the local hydrology were occurring. Water quality remains good overall and no physical impacts have been noted at any of the monitored locations that would suggest adverse effects associated with the historical mining operations of the Bowie No. 1 Mine.

### Summary of Hydrology Monitoring Stations

Station		Elevation	Depth	Frequency of I	Measurements	Report	Report	Format	
Number	Station Name	(ft.)	(ft.)	Field Par.	Lab. Par.	Frequency	AHR	DMR	Comments
OVEM Gro	undwater Monitoring Wells		,						•
B05	Borehole 5	6883	32.5	N/A	N/A	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
B06	Borehole 6	6781	93.8	N/A	N/A	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
B07	Borehole 7	6602	95.3	Semi-Annually	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
B08	Borehole 8	6790	38.8	N/A	N/A	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
North Fork	Alluvium Groundwater Monitoring	Wells							
MW01	Monitoring Well 1	5716	25	Quarterly	Quarterly	Annually	Yes	No	Monitored for water level quarterly (Volume 7, pg 2.04-41)
MW02	Monitoring Well 2	5737	41.8	Quarterly	N/A	Annually	Yes	No	Monitored for water level quarterly (Volume 7, pg 2.04-41)
MW03	Monitoring Well 3	5727	31.9	Quarterly	Quarterly	Annually	Yes	No	Monitored for water level quarterly (Volume 7, pg 2.04-41)
Steven's G	Gulch Colluvium Groundwater Monit	toring Well	ls						
SM01	Monitoring Well SM-1	7590	55	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM05	Monitoring Well SM-5	7520	40	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM06	Monitoring Well SM-6	7480	50	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM07	Monitoring Well SM-7	7800	55	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM09	Monitoring Well SM-9	7520	40	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM10	Monitoring Well SM-10	7250	48.7	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
SM11	Monitoring Well SM-11	7243	46.5	Semi-Annually	Semi-Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
Surface W	ater Monitoring Stations - SPRINGS	\$							
S1010	East Roatcap Creek-Spring 10-10	8650	N/A	Quarterly	Annually	Annually	Yes	No	No winter monitoring/access
S1404	West Roatcap Creek-Spring 14-4	7480	N/A	Quarterly	Annually	Annually	Yes	No	No winter monitoring/access
S2500	Steven's Gulch-Spring 25	7160	N/A	Quarterly	Annually	Annually	Yes	No	No winter monitoring/access
S3000	East Roatcap Creek-Spring 30	7840	N/A	Quarterly	Annually	Annually	Yes	No	No winter monitoring/access
S3200	West Roatcap Creek-Spring 32	7900	N/A	Monthly	Quarterly	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
Surface W	ater Monitoring Stations - STREAM	S AND DIT	CHES						
SW05	Steven's Gulch	6600	N/A	Monthly	Quarterly	Annually	Yes	No	No winter monitoring/access
SW06	East Roatcap Creek-Downstream	6740	N/A	Monthly	Quarterly	Annually	Yes	No	No winter monitoring/access

### Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report

Station		Elevation	Depth	Frequency of I	Measurements	Report Report Format		Format	
Number	Station Name	(ft.)	(ft.)	Field Par.	Lab. Par.	Frequency	AHR	DMR	Comments
Surface W	ater Monitoring Stations - STREAMS	S AND DITO	HES						
SW05	Steven's Gulch	6600	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring/access
SW06	East Roatcap Creek-Downstream	6740	N/A	Quarterly	Quarterly	Annually	Yes	No	No winter monitoring/access
Surface W	Surface Water Monitoring Stations - PONDS								
P1001	East Roatcap Creek-Pond 10-1	8520	5	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1002	East Roatcap Creek-Pond 10-2	8630	3	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1003	East Roatcap Creek-Pond 10-3	8680	3	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1004	East Roatcap Creek-Pond 10-4	8780	3	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1007	East Roatcap Creek-Pond 10-7	8350	4	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1009	East Roatcap Creek-Pond 10-9	8395	3	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1014	East Roatcap Creek-Pond 10-14	8795	3	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1307	Steven's Gulch-Pond 13-7	8875	5	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P1501	East Roatcap Creek-Pond 15-1	8055	4	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P8500	Steven's Gulch-Pond 85	7580	4	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P8700	East Roatcap Creek-Pond 87	7990	4	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P8800	East Roatcap Creek-Pond 88	7790	5	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
P8900	East Roatcap Creek-Pond 89	7490	4.5	Quarterly	Annually	Annually	Yes	No	PERMANENTLY SUSPENDED (TR-61)
Surface W	ater Monitoring Stations - SPRINGS	WITH PON	IDS						
SP1305	Steven's Gulch-Spring & Pond 13-5	7860	4	Quarterly	Annually	Annually	Yes	No	Monitor if spring is discharging. No winter monitoring/access
SP1306	Steven's Gulch-Spring & Pond 13-6	7590	4	Quarterly	Annually	Annually	Yes	No	Monitor if spring is discharging. No winter monitoring/access

### Summary of Hydrology Monitoring Stations (Continued)

### **PARAMETER LISTS**

### LAB PARAMETERS

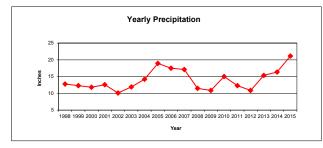
Wet Chemistry						
Alkalinity as CaCO (mg/l)						
Bicarbonate as CaCO (mg/l)						
Carbonate as CaCO (mg/l)						
Chloride (mg/l)						
Conductivity (umhos/cm)						
pH (Lab Units)						
Hardness as CaCO (mg/l)						
Residue, Filterable (TDS) @ 180 C (mg/l)						
Residue, NonFilterable (TSS) (mg/l)						
Sodium Absorption Ratio in Water						
Sulfate (mg/l)						
Acidity (mg/l)						

Metals
Calcium, dissolved (mg/l)
Magnesium, dissolved (mg/l)
Sodium, dissolved (mg/l)
Iron, dissolved (mg/l)
Iron, total (mg/l)
Manganese, total (mg/l)

FIELD PARAMETERS									
Parameter Unit Wells Ponds Streams Springs									
Conductivity	umhos/cm	Yes	Yes	Yes	Yes				
Flow Rate	CFS	No	No	Yes	Yes				
pН	Standard	Yes	Yes	Yes	Yes				
Temperature	С	Yes	Yes	Yes	Yes				
Water Level	Feet	Yes	Yes	No	No				

### 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	1.73	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	1.00	1.66	0.87	1.41	0.89	2.16	1.00	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	1.32	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	1.20	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	0.90	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	0.4	0.17	0	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	1.28	1.37	1.76	0.97
Maximum	1.88	2.7	1.93	2.35	2.53	1.93	3.3	2.84	5.08	4.2	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	15.39	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).

\* 26 or more days missing from data, therefore deemed not complete. 0.97 is the average of years 1998-2016 \*\* No data recorded during the 2017-2024 water years \*\*

### Angle of Draw Monitoring Points Previously Mined Areas

ID	Panel	Advance	Advance Date	Retreat	Retreat Date	Overburden	Begin Monitoring	End Monitoring
			Dutt		Dute		Date	Date
DH650	1 East Mains	Х	4/1/1994			1350	7/1/1993	8/1/1996
P1001	Panel Z	Х	2/1/1994	Х	9/1/1994	1600	10/1/1991	Note3
P1002	Panel Y	Х	10/1/1993			1800	10/1/1991	Note3
P1003	Panel Y	Х	11/1/1993			1950	10/1/1991	Note3
P1007	2 Right	Х	2/1/1996			1500	10/1/1991	Note3
P1009	2 1/2 Right	Х	9/1/1995			1650	10/1/1992	Note3
P1307	Panel A+	Х	4/1/1992	Х	4/1/1992	950	7/1/1983	10/11/1990
P1308	5 East	Х	11/1/1980	Х	6/1/1981	900	10/1/1983	4/1/1992
P1402	Panel I	Х	10/1/1997	Х	10/1/1997	1100	6/1/1992	11/10/2006
P1501	1 East Mains	Х	8/1/1994	Х	8/1/1984	1150	6/1/1992	Note 1
P8800	III West Mains	Х	10/1/1997	Х	10/1/1997	850	6/1/1983	Note3
S0704	N. Mains	Х	3/1/1983			1400	7/1/1983	5/1/1997
S0705	N. Mains	Х	2/1/1983			1500	7/1/1983	Note 2
S1010	Panel Y	Х	10/1/1993			1950	6/1/1992	Note 1
S1805	7 East	Х	12/1/1981	Х	12/1/1981	250	Unknown	Unknown
SM07	III West Mains	Х	10/1/1997	Х	10/1/1997	900	8/1/1985	Note3
SM09	Panel C	Х	2/1/1993	Х	3/1/1993	600	8/1/1985	Note3
SP1305	Panel B	Х	12/1/1992	Х	12/1/1992	750	7/1/1983	Note 1
SP1306	II West Submains	Х	1/1/1988			600	1/1/1983	Note 1

Note 1 Currently Monitored

Note 2 Transferred to the Bowie No. 2 Mine

Note 3 Permanently suspened with TR-61, July 22, 2016

### Undermined Monitoring Points Previously Mined Areas

ID	Panel	Advance	Advance Date	Retreat	Retreat Date	Overburden	Begin Monitoring Date	End Monitoring Date
DH580	1 West	Х	12/1/1995	Х	1/1/1986	1600	1/1/1983	4/1/1992
DH600	Panel H	Х	1/1/1990	Х	1/1/1990	1100	7/1/1983	11/1/1998
DH700	8 North	Х	2/1/1984			700	1/1/1983	11/26/2006
P0707	1 North	Х	10/1/1983	Х	2/1/1985	1500	7/1/1983	4/1/1992
P0711	1 North	Х	10/1/1983	Х	2/1/1985	1500	10/1/1983	4/1/1992
P1004	1 West	Х	11/1/1993			2050	10/1/1991	Note 3
P1014	1 West	Х	1/1/1994			2200	10/1/1991	Note 3
P1202	N. Mains	Х	1/1/1984			1300	7/1/1983	10/1/1997
P1401	III West Mains	Х	10/1/1997	Х	10/1/1997	950	6/1/1992	11/10/2006
P1404	II South	Х	6/1/1987			400	6/1/1992	Unknown
P1701	8 North	Х	1/1/1984			350	8/1/1983	5/4/1990
P1804	N. Mains	Х	9/1/1982			1450	7/1/1983	Note 2
P1901	2 South	Х	12/1/1982	Х	1/1/1983	100	7/1/1983	4/1/1992
P2401	2 1/2 West	Х	5/1/1983	Х	9/1/1983	650	7/1/1985	4/1/1992
P8100	9E	Х	5/1/1983			1700	6/1/1983	4/1/1992
P8300	5 North	Х	6/1/1984			900	1/1/1983	10/5/1990
P8500	Panel B	Х	12/1/1992	Х	12/1/1992	650	2/1/1983	Note 3
P8700	2 1/2 Right	Х	10/1/1995	Х	10/1/1995	1250	6/1/1983	Note 3
S3000	Panel Y	Х	4/1/1983	Х	10/1/1997	900	5/1/1983	Note 1
SP1105	1 North	Х	2/1/1996			1700	Unknown	Unknown
SP1502	II West Submains	Х	2/1/1992			700	6/1/1992	Unknown
SP2300	1 East Mains	Х	7/1/1984	Х		1650	6/1/1983	Note 2
SW08	Farmer's Mine	Х				0	2/1/1983	10/5/1990

Note 1 Currently Monitored

Note 2 Transferred to the Bowie No. 2 Mine

Note 3 Permanently suspened with TR-61, July 22, 2016

### Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report

### Monitoring Point Reports Table of Contents

OVEM Grou	Indwater Monitoring Wells	Chart Fig #
B05	Borehole 5	Monitoring Point Figure Number Suspended with TR61
B06	Borehole 6	Monitoring Point Figure Number Suspended with TR61
B07	Borehole 7	Monitoring Point Figure Number 1 2
B08	Borehole 8	Monitoring Point Figure Number Suspended with TR61

North Fork Alluvium Groundwater Monitoring Wells

MW01	Monitoring Well 1	Monitoring Point Figure Number	3	4
MW02	Monitoring Well 2	Monitoring Point Figure Number	5	6
MW03	Monitoring Well 3	Monitoring Point Figure Number	7	8

### Steven's Gulch Colluvium Groundwater Monitoring Wells

SM01	Monitoring Well SM-1	Monitoring Point Figure Number	Suspended with TR61
SM05	Monitoring Well SM-5	Monitoring Point Figure Number	Suspended with TR61
SM06	Monitoring Well SM-6	Monitoring Point Figure Number	Suspended with TR61
SM07	Monitoring Well SM-7	Monitoring Point Figure Number	Suspended with TR61
SM09	Monitoring Well SM-9	Monitoring Point Figure Number	Suspended with TR61
SM10	Monitoring Well SM-10	Monitoring Point Figure Number	Suspended with TR61
SM11	Monitoring Well SM-11	Monitoring Point Figure Number	Suspended with TR61

### Surface Water Monitoring Stations - SPRINGS

S1010	East Roatcap Creek - Spring 10-10	Monitoring Point Figure Number	9	10
S1404	West Roatcap Creek - Spring 14-4	Monitoring Point Figure Number	11	
S2500	Steven's Gulch - Spring 25	Monitoring Point Figure Number	12	13
S3000	East Roatcap Creek - Spring 30	Monitoring Point Figure Number	14	15
S3200	West Roatcap Creek - Spring 32	Monitoring Point Figure Number	Sus	pended with TR6

### Surface Water Monitoring Stations - STREAMS AND DITCHES

SW05	Steven's Gulch	Monitoring Point Figure Number	16	17
SW06	East Roatcap Creek - Downstream	Monitoring Point Figure Number	18	19

### Surface Water Monitoring Stations - PONDS

P1001	East Roatcap Creek - Pond 10-1	Monitoring Point Figure Number	Suspended with TR61
P1002	East Roatcap Creek - Pond 10-2	Monitoring Point Figure Number	Suspended with TR61
P1003	East Roatcap Creek - Pond 10-3	Monitoring Point Figure Number	Suspended with TR61
P1004	East Roatcap Creek - Pond 10-4	Monitoring Point Figure Number	Suspended with TR61
P1007	East Roatcap Creek - Pond 10-7	Monitoring Point Figure Number	Suspended with TR61
P1009	East Roatcap Creek - Pond 10-9	Monitoring Point Figure Number	Suspended with TR61
P1014	East Roatcap Creek - Pond 10-14	Monitoring Point Figure Number	Suspended with TR61
P1307	Steven's Gulch - Pond 13-7	Monitoring Point Figure Number	Suspended with TR61
P1501	East Roatcap Creek - Pond 15-1	Monitoring Point Figure Number	Suspended with TR61
P8500	Steven's Gulch - Pond 85	Monitoring Point Figure Number	Suspended with TR61
P8700	East Roatcap Creek - Pond 87	Monitoring Point Figure Number	Suspended with TR61
P8800	East Roatcap Creek - Pond 88	Monitoring Point Figure Number	Suspended with TR61
P8900	East Roatcap Creek - Pond 89	Monitoring Point Figure Number	Suspended with TR61

### Surface Water Monitoring Stations - SPRINGS WITH PONDS

SP1305	Steven's Gulch - Spring and Pond 13-5	Monitoring Point Figure Number	20	21
SP1306	Steven's Gulch - Spring and Pond 13-6	Monitoring Point Figure Number	22	23

### **Ground Water**

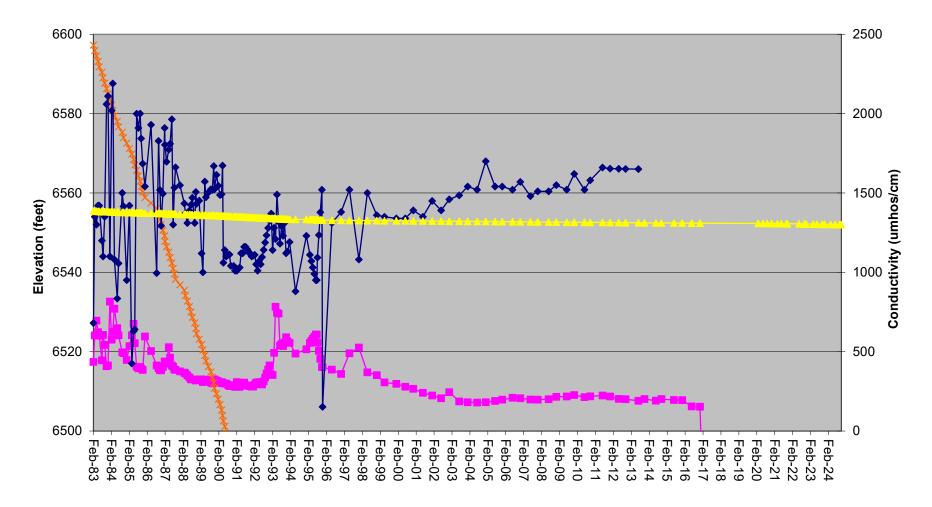
### B07 Borehole 7 Depth - 95.3' Elevation - 6602'

						Initiated		9/1/1981	9/1/1981	9/1/1981	9/1/1981
						Activate	d	9/1/1981	9/1/1981	9/1/1981	9/1/1981
						Date		10/17/2024	9/14/2024	6/18/2024	3/19/2024
			ry Inform	nation							
Field		Baselin	е		Operation	on					
Parameters	UNITS	Min	Ave	Max			Max		<u>.</u>		
Static Water Level	Feet				0.00	84.33	95.90	0	0	0	0
Water Elevation	Feet				0	6248	6533	0	0	0	0
Temperature	Celsius				7.0	13.7	19.6				
Conductivity	umhos/cm				152	1350	2190				
рН	su				5.8	7.5	8.9				
Field Comments								Dry	Dry	Dry	Dry
Lab											
Parameters	UNITS										
Bicarbonate	mg/L				226.00	418.9	579.0				
Carbonate	mg/L				<mdl< td=""><td>0.3</td><td>7</td><td></td><td></td><td></td><td></td></mdl<>	0.3	7				
Chloride	mg/L				21.80	80.50	420.00				
Conductivity	umhos/cm				600	1378	2190				
Hardness	mg/L				237.0	658.2	1170.5				
Acidity	mg/L				20.0	23.7	27.0				
рН	su				6.9	7.6	8.4				
ResidueFilterable-TDS	mg/L				244	961	1900				
ResidueNonFilterable-TSS	mg/L				<mdl< td=""><td>227</td><td>824</td><td></td><td></td><td></td><td></td></mdl<>	227	824				
SAR					0.62	1.34	2.96				
Sulfate	mg/L				2.41	314.99	530.96				
Calcium (Dissolved)	mg/L				1.9	138.1	254.0				
Iron (Dissolved)	mg/L				0.02	0.06	0.12				
Iron (Total)	mg/L				1.02	10.19	18.64				
Magnesium (Dissolved)	mg/L				23.0	72.4	171.0				
Manganese (Total)	mg/L				<mdl< td=""><td>0.574</td><td>0.763</td><td></td><td></td><td></td><td></td></mdl<>	0.574	0.763				
Sodium (Dissolved)	mg/L				22.0	86.8	408.0				
TDS Ratio (grav./calc.)	%				0.56	0.98	1.15				

The area of concern for monitoring point B07 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

### \*Not Enough Water for Parameters

Borehole B-7, also referred to as Node 22, is located below sedimentation pond #4 and is periodically monitored for water quality to ascertain potential groundwater contamination attributable to the East Mine facilities area.



Plot of Conductivity and Water Level

Date

Elevation — Linear Elevation — Conductivity \_ Linear Conductivity

### MW01 Monitoring Well 1 Depth - 25' Elevation - 5716.15'

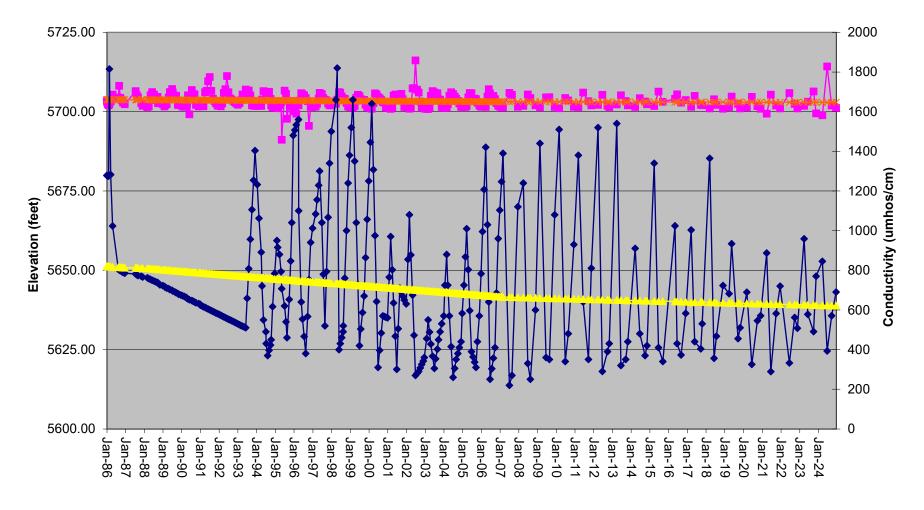
						Initiated		9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Activate	d	9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Date		12/11/2024	9/14/2024	6/18/2024	3/19/2024
		Summa	ary Infori	mation	,						
Field		Baselir	ne		Operatio	on					
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet				1.90	12.81	25.00	14.9	14.2	1.9	17.3
Water Elevation	Feet				5691.1	5703.3	5714.3	5701.25	5701.95	5714.25	5698.85
Temperature	Celsius				7.4	12.9	18.5	11.5	14.4	14.9	8.5
Conductivity	umhos/cm				220	727	1820	690	571	393	845
pН	su				6.3	7.7	8.7	7.9	8.01	7.65	7.58
Field Comments											
Lab											
Parameters	UNITS										
Bicarbonate	mg/L				98.5	184.4	329.4			184	
Carbonate	mg/L				<mdl< td=""><td>6.7</td><td>179.0</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	6.7	179.0			<mdl< td=""><td></td></mdl<>	
Chloride	mg/L				<mdl< td=""><td>17.5</td><td>233.0</td><td></td><td></td><td>2.27</td><td></td></mdl<>	17.5	233.0			2.27	
Conductivity	umhos/cm				222	666	1850			305	
Hardness	mg/L				107	340	1054			165	
Acidity	mg/L				<mdl< td=""><td>-65.97</td><td>49.84</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	-65.97	49.84			<mdl< td=""><td></td></mdl<>	
pН	su				6.50	7.67	8.41			6.5	
ResidueFilterable-TDS	mg/L				15	539	5122			218	
ResidueNonFilterable-TSS	mg/L				<mdl< td=""><td>45</td><td>540</td><td></td><td></td><td>23</td><td></td></mdl<>	45	540			23	
SAR					0.25	0.60	1.97			0.46	
Sulfate	mg/L				5.8	179.9	880.0			30.8	
Calcium (Dissolved)	mg/L				1.9	89.0	273.0			49	
Iron (Dissolved)	mg/L				<mdl< td=""><td>0.55</td><td>10.50</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	0.55	10.50			<mdl< td=""><td></td></mdl<>	
Iron (Total)	mg/L				0.02	0.58	2.35			0.587	
Magnesium (Dissolved)	mg/L				7.20	26.18	137.10			10.3	
Manganese (Total)	mg/L				<mdl< td=""><td>1.683</td><td>17.300</td><td></td><td></td><td></td><td></td></mdl<>	1.683	17.300				
Sodium (Dissolved)	mg/L				0.5	24.4	102.0			13.4	

The area of concern for monitoring point MW01 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

Negative acidity value indicates equivalent value of alkalinity

Monitoring Wells MW-1, MW-2 and MW-3 are located at the coal stockpile/truck dump/train loadout area and were drilled during September 1982 to determine the essential hydrologic functions of the North Fork alluvial valley floor. Two of the wells, MW-2 and MW-3, have since been determined to be installed in areas which are no longer classified as alluvial valley floor. (TR-13, See Volume 7, for AVF Map)

Site not accessible 1Q



### Plot of Conductivity and Water Level

Date

Elevation —— Linear Elevation —— Conductivity — Linear Conductivity

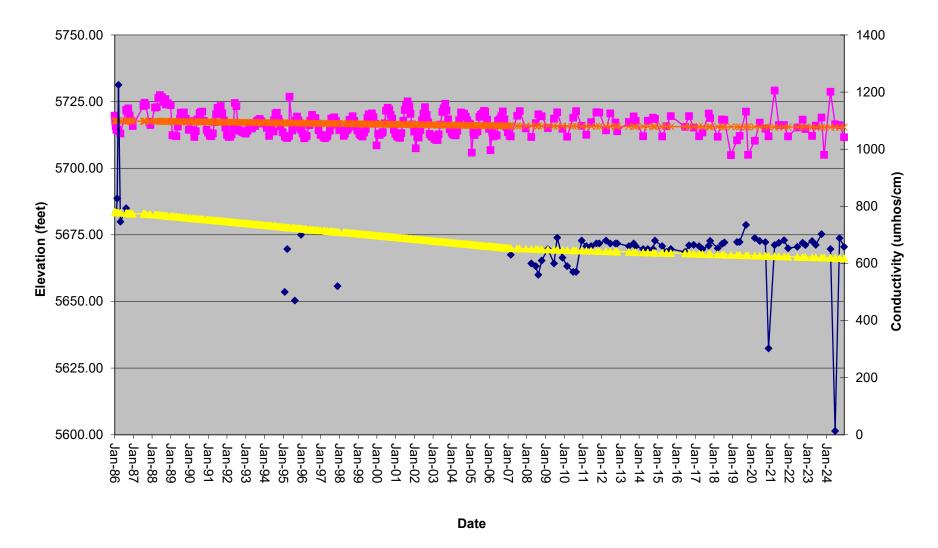
### MW02 Monitoring Well 2 Depth - 41.8' Elevation - 5737.4'

						Initiated		9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Activate		9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Date	u	12/11/2024	9/1/1982	6/18/2024	3/19/2024
		Cump ma	ary Infor	motion		Date		12/11/2024	9/14/2024	0/10/2024	3/19/2024
Field		Baselir		nation	0						
Parameters	UNITS	Min	Ave	Max	Operation Min	Ave	Max				
	Feet	IVIIN	Ave	wax	8.23			25.8	21.3	20.9	0.74
			-						-		8.71
	Feet		-			5716.6		5711.60	5716.10	5716.50	5728.69
Temperature	Celsius				2.1	13.2	17.0	11.4	16.2	8.09	12.5
Conductivity	umhos/cm				13	651	1225	658	688	13	650
pH	su				6.7	18.5	798.0	7.78	7.76	798	7.81
Field Comments											
Lab											
Parameters	UNITS			-							
Bicarbonate	mg/L				287.00	311				342	
Carbonate	mg/L				<mdl< td=""><td>111</td><td>305.00</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	111	305.00			<mdl< td=""><td></td></mdl<>	
Chloride	mg/L				3.67	5	6.06			6.06	
Conductivity	umhos/cm				508.00	594	666.00			578	
Hardness	mg/L				253.00	288	308.00			308	
Acidity					<mdl< td=""><td>-289</td><td>######</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	-289	######			<mdl< td=""><td></td></mdl<>	
рН	su				6.90	8	8.50			6.9	
ResidueFilterable-TDS	mg/L				20.50	372	690.00			378	
ResidueNonFilterable-TSS	mg/L				<mdl< td=""><td>16</td><td>59.20</td><td></td><td></td><td>13</td><td></td></mdl<>	16	59.20			13	
SAR					0.06	1	0.66			0.58	
Sulfate	mg/L				0.59	31	39.80			39.8	
Calcium (Dissolved)	mg/L				52.70	60	68.70			64.5	
Iron (Dissolved)	-				<mdl< td=""><td>30</td><td>61.30</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	30	61.30			<mdl< td=""><td></td></mdl<>	
Iron (Total)					0.02	0	0.64			0.186	
Magnesium (Dissolved)	mg/L				15.60	33	39.20			35.7	
Manganese (Total)	-				<mdl< td=""><td>4</td><td>35.90</td><td></td><td></td><td></td><td></td></mdl<>	4	35.90				
Sodium (Dissolved)	mg/L				20.80	23	29.50			23.3	

The area of concern for monitoring point MW02 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

Monitoring Wells MW-1, MW-2 and MW-3 are located at the coal stockpile/truck dump/train loadout area and were drilled during September 1982 to determine the essential hydrologic functions of the North Fork alluvial valley floor. Two of the wells, MW-2 and MW-3, have since been determined to be installed in areas which are no longer classified as alluvial valley floor. (TR-13, See Volume 7, for AVF Map)

Site not accessible 1Q



Plot of Conductivity and Water Level

### MW03 Monitoring Well 3 Depth - 31.9' Elevation - 5726.94'

						Initiated		9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Activate	d	9/1/1982	9/1/1982	9/1/1982	9/1/1982
						Date			9/14/2024	6/18/2024	3/19/2024
		Summa	ary Infori	mation							
Field		Baselir	ne		Operation	on					
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max				
Static Water Level	Feet				4.60	22.86	35.50		22	27.1	
Water Elevation	Feet				5691.4	5704.4	5726.9		5704.94	5699.84	
Temperature	Celsius				8.8	14.4	19.8		13.9	13.9	
Conductivity	umhos/cm				340	644	1117		801	1117	
рН	su				6.7	15.4	688.0		13.9	7.71	
Field Comments								Dry			Dry
Lab											
Parameters	UNITS										
Bicarbonate	mg/L				88.8	327.9	626.0			589	
Carbonate	mg/L				<mdl< td=""><td>3.0</td><td>29.0</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	3.0	29.0			<mdl< td=""><td></td></mdl<>	
Chloride	mg/L				<mdl< td=""><td>28.6</td><td>303.1</td><td></td><td></td><td>9.44</td><td></td></mdl<>	28.6	303.1			9.44	
Conductivity	umhos/cm				366	645	1440			957	
Hardness	mg/L				159.68	305.97	550.46			514	
Acidity	mg/L				-334	-97	39			<mdl< td=""><td></td></mdl<>	
pН	su				6.9	7.9	8.6			7.1	
ResidueFilterable-TDS	mg/L				200	424	1046			610	
ResidueNonFilterable-TSS	mg/L				<mdl< td=""><td>39</td><td>287</td><td></td><td></td><td>287</td><td></td></mdl<>	39	287			287	
SAR					<mdl< td=""><td>0.59</td><td>1.90</td><td></td><td></td><td>0.8</td><td></td></mdl<>	0.59	1.90			0.8	
Sulfate	mg/L				<mdl< td=""><td>28.92</td><td>181.43</td><td></td><td></td><td>27.8</td><td></td></mdl<>	28.92	181.43			27.8	
Calcium (Dissolved)	mg/L				1.9	44.3	200.0			74.9	
Iron (Dissolved)	mg/L				<mdl< td=""><td>0.12</td><td>0.66</td><td></td><td></td><td>0.139</td><td></td></mdl<>	0.12	0.66			0.139	
Iron (Total)	mg/L				0.01	1.21	7.42			5.94	
Magnesium (Dissolved)	mg/L				12.4	53.3	503.0			79.3	
Manganese (Total)	mg/L				<mdl< td=""><td>0.107</td><td>0.594</td><td></td><td></td><td></td><td></td></mdl<>	0.107	0.594				
Sodium (Dissolved)	mg/L				9.0	24.7	92.0			41.2	

The area of concern for monitoring point MW03 was affected by the mining operation before its establishment. Therefore, all recorded monitoring events are considered Operational.

\*Not enough water for parameters - no sample.

Monitoring Wells MW-1, MW-2 and MW-3 are located at the coal stockpile/truck dump/train loadout area and were drilled during September 1982 to determine the essential hydrologic functions of the North Fork alluvial valley floor. Two of the wells, MW-2 and MW-3, have since been determined to be installed in areas which are no longer classified as alluvial valley floor. (TR-13, See Volume 7, for AVF Map)

Negative value of acidity indicates equivalent value of acidity

Site not accessible 1Q

5900.00 1200 1150 5880.00 1100 1050 5860.00 1000 5840.00 950 900 5820.00 Elevation (feet) 5800.00 5780.00 5760.00 5740.00 500 5720.00 450 400 5700.00 350 300 5680.00 Jan-87 Jan-88 Jan-92 Jan-02 Jan-05 Jan-22 Jan-89 Jan-99 Jan-24 Jan-86 Jan-90 Jan-91 Jan-93 Jan-94 Jan-95 Jan-96 Jan-98 Jan-00 Jan-01 Jan-03 Jan-04 Jan-06 Jan-09 Jan-10 Jan-12 Jan-13 Jan-16 Jan-18 Jan-19 Jan-20 Jan-21 Jan-23 Jan-97 Jan-07 Jan-08 Jan-11 Jan-14 Jan-15 Jan-17

### Plot of Conductivity and Water Level

Date

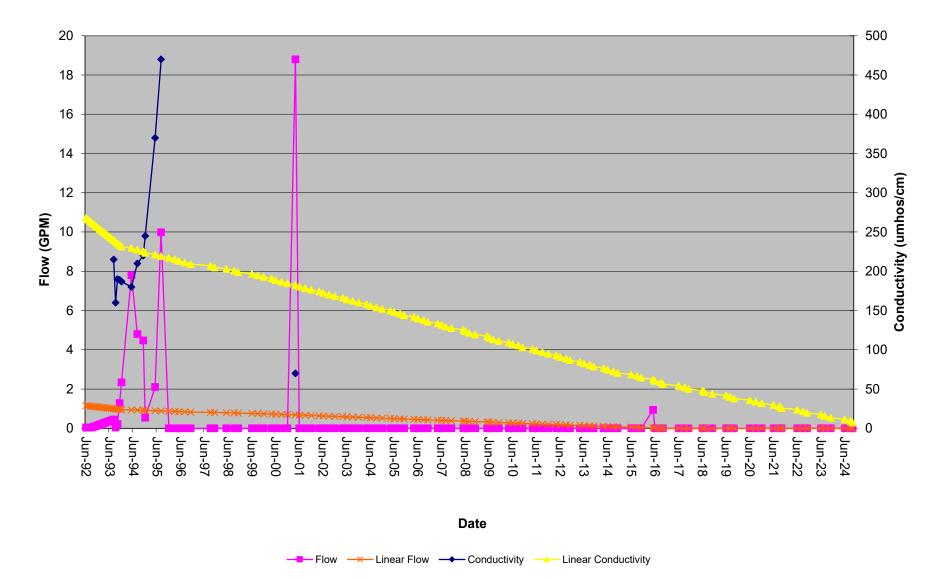
Elevation — Linear Elevation — Conductivity Linear Conductivity

### S1010 East Roatcap Creek - Spring 10-10 Elevation - 8650

						Initiated		6/1/1992	6/1/1992	6/1/1992
						Activate	d	10/1/1993	10/1/1993	10/1/1993
					10/10/2024	9/16/2024	6/20/2024			
		Summa	ry Inform	ation						
Field		Baseline	e		Operatio	on				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0.0449	0.20	0.45	0	0.62	18.80			
Temperature	Celsius				5.0	14.4	23.2			
Conductivity	umhos/cm	160	188	215	70	224	470			
pН	su				6.8	7.94	9.10			
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L				45	78	110			
Carbonate	mg/L				<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td></td><td></td></mdl<>			
Chloride	mg/L				2	2	2			
Conductivity	umhos/cm				87	149	210			
Hardness	mg/L				43	71	99			
pН	su				7.8	7.9	8.0			
ResidueFilterable-TDS	mg/L				80	92	104			
ResidueNonFilterable-TSS	mg/L				18	18	18			
SAR					0.19	0.20	0.22			
Sulfate	mg/L				6	6	6			
Calcium (Dissolved)	mg/L				10.8	16.9	23.0			
Magnesium (Dissolved)	mg/L				3.8	6.9	10.0			
Sodium (Dissolved)	mg/L				2.9	4.0	5.0			
TDS Ratio (grav./calc.)										

Note: Site inaccessible 1Q due to snow

Spring 10-10 is located in the NW1/4SE1/4 of Section 10, T13S, R92W. This spring was not observed to be developed. "A small seep occurs along the jeep trail between Ponds 10-2 and Pond 10-3 at an elevation of approximately 8560 feet. Flow was observed but too low to measure or sample. Vegetation consisted of green mosses and grasses." (Simon Hydro Search, 92) Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report



### **Plot of Flow and Conductivity**

S1010 - East Roatcap Creek Spring 10-10

### S1404 East Roatcap Creek - Spring 14-4 Elevation - 7480

						Initiated		12/2/1996	12/2/1996	12/2/1996
						Activate	d	11/22/1998	11/22/1998	11/22/1998
						Date		10/17/2024	9/4/2024	6/20/2024
		Summa	ry Inform	ation						
Field		Baseline	•		Operatio	n				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	1.51	5.00	0	0.25	3.00			
Temperature	Celsius	4.4	8.7	12.4	0.5	9.7	21.2			
Conductivity	umhos/cm	760	883	1000	655	836	980			
рН	su	6.8	7.3	7.6	7.0	7.4	8.21			
Field Comments								Damp	Damp	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	352	354	355	289.1	359	415			
Carbonate	mg/L	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td></td><td></td></mdl<>			
Chloride	mg/L	19	20	21	3.66	39	136.48			
Conductivity	umhos/cm	780	800	819	311	779	999			
Hardness	mg/L	398	401	404	31.73	318	455			
Acidity	mg/L				-265	-34	30			
рН	su	8.0	8.0	8.0	6.77	7.8	8.9			
ResidueFilterable-TDS	mg/L	480	490	500	190	539	688			
ResidueNonFilterable-TSS	mg/L	6	7	8	<mdl< td=""><td>29</td><td>74</td><td></td><td></td><td></td></mdl<>	29	74			
SAR		0.93	0.96	0.98	0.396	1.03	1.677			
Sulfate	mg/L	80	80	80	30	68	130			
Calcium (Dissolved)	mg/L	101	104.0	107	7	73.7	114			
Iron (Dissolved)	mg/L				0.01	0.04	0.08			
Iron (Total)	mg/L				0.08	0.65	2.71			
Magnesium (Dissolved)	mg/L	33.3	34.4	35.4	3.46	31.5	45.8			
Manganese (Total)	mg/L				0.01	0.08	0.37			
Sodium (Dissolved)	mg/L	42.5	43.6	44.7	5.2	42.4	71.4			

Note: Site inaccessible 1Q due to snow \* No visible flow

This spring is a marshlike area of about 20' x 20'. (Hanna, 99)

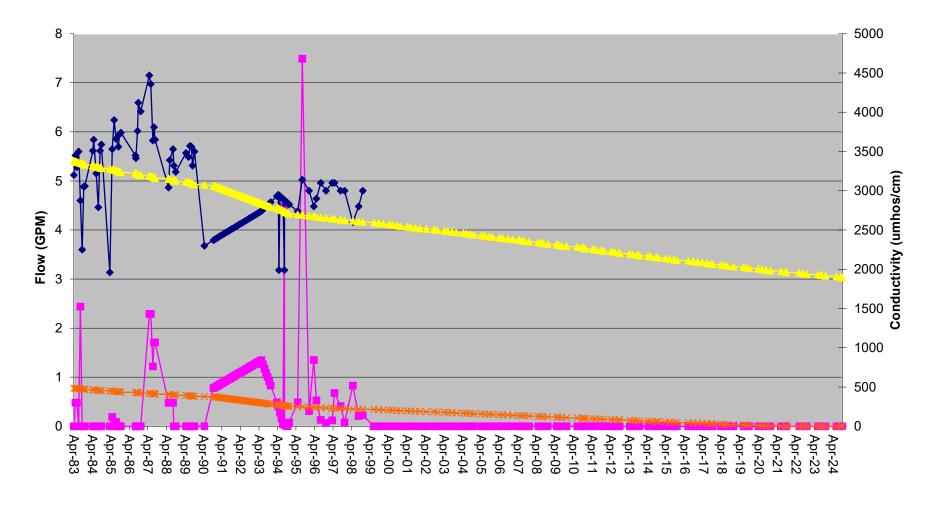
### S2500 Steven's Gulch - Spring 25 Elevation - 7160

						Initiate Activat		4/14/1983	4/14/1983	4/14/1983
						Date	u	10/17/2024	9/16/2024	6/24/2024
		Summar	y Inform	ation		ı				
Field	1	Baseline	, ,		Operat	ion				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	0.37	7.49				0	0	0
Temperature	Celsius	5.0	14.1	27.9						
Conductivity	umhos/cm	1960	2992	4470						
рН	su	6.9	7.9	9.1						
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	483	846	1040						
Carbonate	mg/L	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<>						
Chloride	mg/L	22	43	58						
Conductivity	umhos/cm	1650	3062	3780						
Hardness	mg/L	679	1387	1894						
рН	su	7.4	8.02	8.4						
ResidueFilterable-TDS	mg/L	1036	2450	3398						
ResidueNonFilterable-TSS	mg/L	8	92	492						
SAR		0.98	3.84	4.76						
Sulfate	mg/L	811	1311	1827						
Calcium (Dissolved)	mg/L	73	140	208						
Magnesium (Dissolved)	mg/L	121	252	346						
Sodium (Dissolved)	mg/L	192	339	396						
Potassium	mg/L	<mdl< td=""><td>3.07</td><td>9.2</td><td></td><td></td><td></td><td></td><td></td><td></td></mdl<>	3.07	9.2						
TDS Ratio (grav./calc.)		1.01	1.01	1.01						

The area of concern for monitoring point S2500 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

Note: Site inaccessible 1Q due to snow

Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report



### **Plot of Flow and Conductivity**

Date

### S3000 East Roatcap Creek - Spring 30 Elevation - 7840

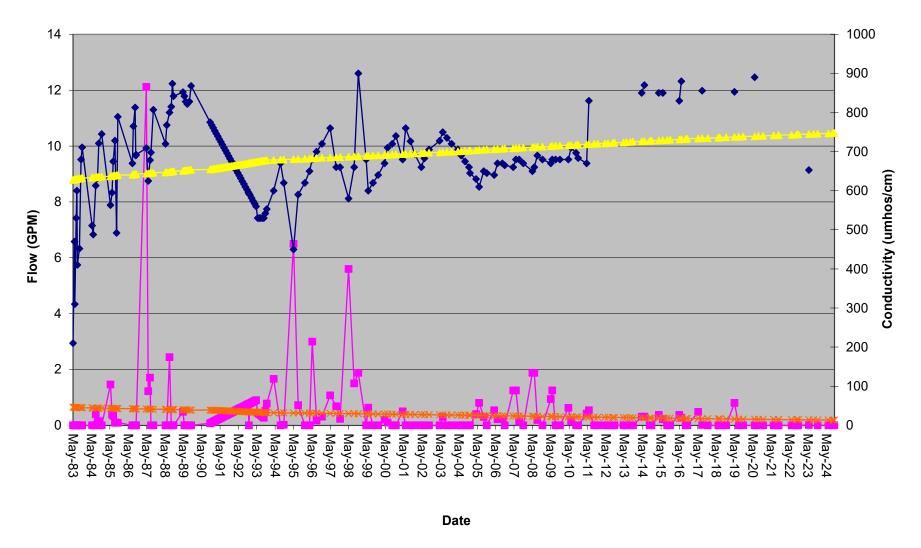
						Initiate Activat		5/16/1983	5/16/1983	5/16/1983
						Date		10/17/2024	9/14/2024	6/20/2024
	-	Summa	ry Inform	ation						
Field		Baseline	•		Operat	ion				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	0.47	12.1						
Temperature	Celsius	0.8	9.5	22.9						
Conductivity	umhos/cm	7.6	673	900						
рН	su	6.0	14.1	650.0						
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	107	303	381						
Carbonate	mg/L	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td></td><td></td><td></td><td></td><td></td></mdl<>						
Chloride	mg/L	1.88	11.93	81.31						
Conductivity	umhos/cm	180	653	844						
Hardness	mg/L	81.0	323.5	479.3						
Acidity	mg/L	-351	-141	82.26						
рН	su	7.1	7.8	8.3						
ResidueFilterable-TDS	mg/L	155	422	566						
ResidueNonFilterable-TSS	mg/L	<mdl< td=""><td>26</td><td>116</td><td></td><td></td><td></td><td></td><td></td><td></td></mdl<>	26	116						
SAR		0.24	0.79	7.3						
Sulfate	mg/L	8	67	120						
Calcium (Dissolved)	mg/L	0.123	84.5	145.6						
Iron (Dissolved)	mg/L	0.01	0.02	0.0331						
Iron (Total)	mg/L	0.02	0.18	0.66						
Magnesium (Dissolved)	mg/L	0.0	24.5	73.0						
Manganese (Total)	mg/L	0.001	0.04	0.12						
Sodium (Dissolved)	mg/L	0	24.3	47						

The area of concern for monitoring point S3000 has not been affected by the mining operation. Therefore, all recorded monitoring events are considered Baseline.

\*No laboratory data for this parameter

This 5' x 5' spring comes out of the toe of a side gulch. (Hanna, 99)

Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report



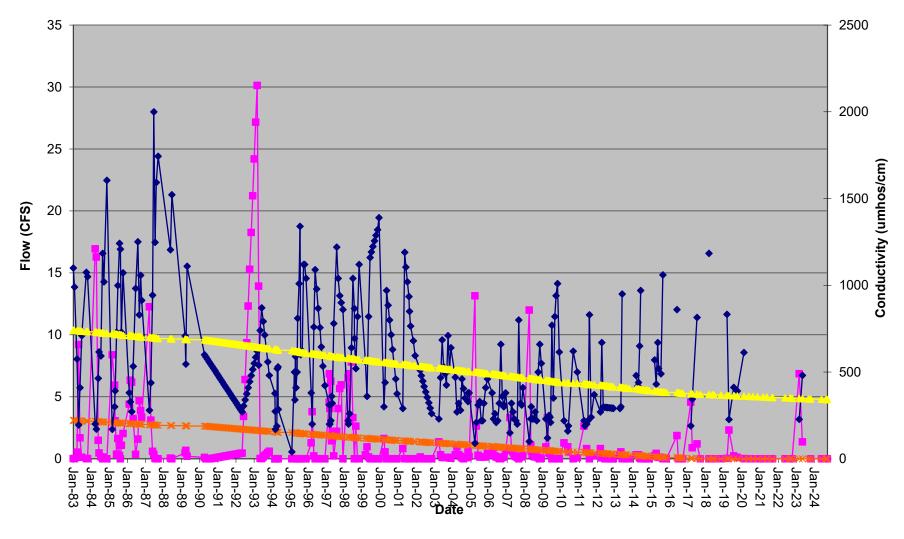
### **Plot of Flow and Conductivity**

### SW05 Steven's Gulch Elevation - 6600

						Initiated		1/1/1983	1/1/1983	1/1/1983
						Activate	d	12/21/1986	12/21/1986	12/21/1986
						Date		10/17/2024	9/16/2024	6/18/2024
		Summa	ry Inform	nation						
Field		Baseline	э		Operatio	on				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	CFS	0	3.1	16.9	0.00	1.22	30.13			
Water Level in Flume	Feet				0.00	0.08	1.00			
Temperature	Celsius	-0.5	10.8	23.7	0.0	10.5	23.6			
Conductivity	umhos/cm	170	746	1605	40	518	2000			
pH	su	7.3	8.5	9.9	6.9	8.3	9.0			
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	89	302	456	83	203	456			
Carbonate	mg/L	<mdl< td=""><td>1</td><td>7</td><td><mdl< td=""><td>4.22</td><td>12.65</td><td></td><td></td><td></td></mdl<></td></mdl<>	1	7	<mdl< td=""><td>4.22</td><td>12.65</td><td></td><td></td><td></td></mdl<>	4.22	12.65			
Chloride	mg/L	2	16	31	<mdl< td=""><td>13.85</td><td>43.00</td><td></td><td></td><td></td></mdl<>	13.85	43.00			
Conductivity	umhos/cm	170	734	1290	149	551	1560			
Hardness	mg/L	72	312	534	35.6	227.4	625.7			
Acidity	mg/L				-330.0	-68.0	24.0			
pH	su	6.8	8.1	8.7	7.2	8.1	8.6			
ResidueFilterable-TDS	mg/L	120	488	794	19	378	1130			
ResidueNonFilterable-TSS	mg/L	2	77	438	<mdl< td=""><td>33</td><td>408</td><td></td><td></td><td></td></mdl<>	33	408			
SAR		0.56	1.14	1.60	0.23	1.06	2.06			
Sulfate	mg/L	14	131.5	338.0	<mdl< td=""><td>96.27</td><td>450.00</td><td></td><td></td><td></td></mdl<>	96.27	450.00			
Calcium (Dissolved)	mg/L	19	71.8	110.0	6.8	51.3	132.0			
Iron (Dissolved)	mg/L	6	32.1	66.0	<mdl< td=""><td>0.09</td><td>0.61</td><td></td><td>-</td><td></td></mdl<>	0.09	0.61		-	
Iron (Total)	mg/L	11.00	47.82	85.00	0.02	0.41	1.46		-	
Magnesium (Dissolved)	mg/L	6.0	32.1	66.0	4.5	25.9	86.2		-	
Sodium (Dissolved)	mg/L	11.0	47.8	85.0	0.0	40.0	115.0		-	
Manganese (Total)	mg/L		_		<mdl< td=""><td>2.27</td><td>35.60</td><td></td><td>-</td><td></td></mdl<>	2.27	35.60		-	

The Stevens Guich stream gauge, SW05, is located near Bowie No. 1 mine's timber storage area in the NE1/4NW1/4, Sec 25, T13S, Ri was installed at this location.

\* Flow not measurable \*\* Flow less than 5 gpm



### Plot of Flow and Conductivity

1/1/1983

### SW06 East Roatcap Creek - Downstream Elevation - 6740

Initiated

1/1/1983

1/1/1983

1/1/1983

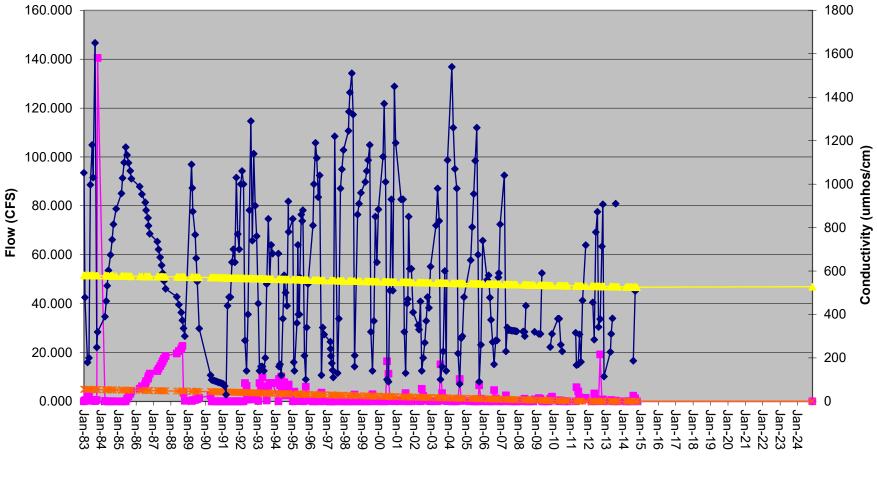
						millatou		1/1/1505	1/1/1505	1/1/1505	1/1/1505	
						Activate	d	12/21/1986	12/21/1986	12/21/1986	12/21/1986	
						Date		12/2/2024	9/14/2024	6/18/2024	3/19/2024	
	Summary Information											
Field	Baseline Operatio					ion						
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max					
Flow	CFS	0.00	4.65	45.75	0.00	1.27	19.20			1.200		
Water Level in Flume	Feet				0.00	0.21	1.22					
Temperature	Celsius	0.5	10.0	21.1	0.03	9.46	25.50			12.3		
Conductivity	umhos/cm	60	277	691	80	584	1650			508		
рН	su	6.5	8.3	9.2	6.9	8.3	9.0			7.97		
Field Comments								Dry	No flow	Dry	Dry	
Lab												
Parameters	UNITS											
Bicarbonate	mg/L	60	155	289	<mdl< td=""><td>234</td><td>440</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	234	440			<mdl< td=""><td></td></mdl<>		
Carbonate	mg/L	<mdl< td=""><td>1</td><td>7.1</td><td><mdl< td=""><td>8.58</td><td>52.00</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<></td></mdl<>	1	7.1	<mdl< td=""><td>8.58</td><td>52.00</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	8.58	52.00			<mdl< td=""><td></td></mdl<>		
Chloride	mg/L	1	5	10	<mdl< td=""><td>13.42</td><td>68.00</td><td></td><td></td><td>4.29</td><td></td></mdl<>	13.42	68.00			4.29		
Conductivity	umhos/cm	110	275	670	89.9	591.5	1430.0			559		
Hardness	mg/L	58	158	291	44.90	270.93	697.00			214		
Acidity	mg/L				-370	-115	62			<mdl< td=""><td></td></mdl<>		
pН	su	6.8	7.9	8.4	4.30	8.01	8.60			4.3		
ResidueFilterable-TDS	mg/L	40	180	380	50	408	1130			296		
ResidueNonFilterable-TSS	mg/L	18	104	524	<mdl< td=""><td>23</td><td>138</td><td></td><td></td><td>73</td><td></td></mdl<>	23	138			73		
SAR		0.11	0.46	0.72	0.28	0.95	5.93			0.64		
Sulfate	mg/L	10	32	80	2.20	83.69	410.00			33.7		
Calcium (Dissolved)	mg/L	15	37	69	10.5	56.1	125.0					
Iron (Dissolved)	mg/L				<mdl< td=""><td>0.12</td><td>0.83</td><td></td><td></td><td><mdl< td=""><td></td></mdl<></td></mdl<>	0.12	0.83			<mdl< td=""><td></td></mdl<>		
Iron (Total)	mg/L				0.07	0.72	2.78			1.69		
Magnesium (Dissolved)	mg/L	4	14	29	4.0	33.2	99.2					
Manganese (Total)	mg/L				<mdl< td=""><td>0.061</td><td>0.165</td><td></td><td></td><td>0.154</td><td></td></mdl<>	0.061	0.165			0.154		
Sodium (Dissolved)	mg/L	2	14	28	0.64	37.26	155.00			0.64		

Note: 1Q site inaccessible due to snow

SW06 is located on East Roatcap Creek in the NE1/4SW1/4 Sec 23, T13S, R92W of the 6th P.M. A 36" Parshall flume was also installed at this locati

\* Sample taken on 3/28/16

\*\* Flow less than 5 gpm



**Plot of Flow and Conductivity** 

Date

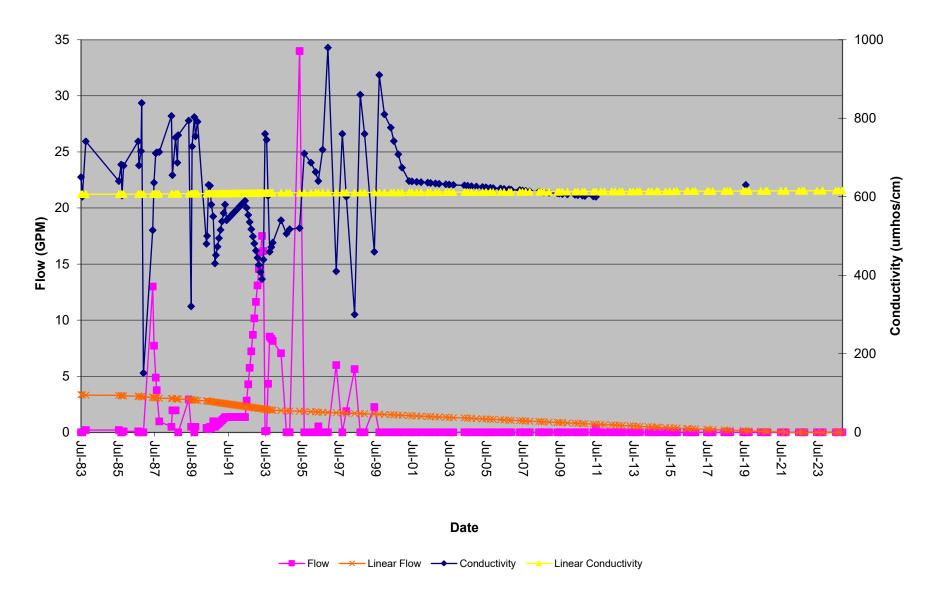
### SP1305 Steven's Gulch - Pond Spring 13-5 Depth 4' Elevation - 7680

						Initiated		7/6/1983	7/6/1983	7/6/1983
						Activate	d	12/1/1992	12/1/1992	12/1/1992
						Date		10/31/2024	8/20/2024	6/24/2024
	_	Summa	ry Inform	ation						
Field		Baseline	e		Operatio	on				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	1.82	13	0	1.66	34			
Freeboard	Feet	0	0.00	0	0	1.98	4.81			
Temperature	Celsius	2.8	13.6	24.4	0.4	12.3	21.2			
Conductivity	umhos/cm	151	603	839	300	593	980			
рН	su	7.1	26.5	640	7	7.8	8.6			
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	253	369	434	96	224	323			
Carbonate	mg/L	<mdl< td=""><td>1</td><td>6</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	1	6	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td></td><td></td></mdl<>			
Chloride	mg/L	3	12	66	2	16	62.04			
Conductivity	umhos/cm	477	651	804	231	444	635			
Hardness	mg/L	225	267	325	98	179	248			
Acidity	mg/L				24	24.00	24			
pН	su	7.4	7.83	8.2	7.46	7.86	8.1			
ResidueFilterable-TDS	mg/L	156	367	452	130	267	372			
ResidueNonFilterable-TSS	mg/L	2	103	358	8	40	108			
SAR		0.84	1.38	1.8	0.89	1.13	1.748			
Sulfate	mg/L	23	64	130	10	39	60.92			
Calcium (Dissolved)	mg/L	47	61.92	79	24.9	45.08	60			
Iron (Dissolved)	mg/L				0.04	0.04	0.04			
Iron (Total)	mg/L				0.77	0.77	0.77			
Magnesium (Dissolved)	mg/L	20	27.33	32	8.7	16.07	24			
Manganese (Total)	mg/L				0.42	0.42	0.42			
Sodium (Dissolved)	mg/L	29	51.67	64	12.8	33.60	57.8			
TDS Ratio (grav./calc.)					0.96	1.04	1.1			

Note: Site inaccessible 1Q due to snow

Spring and Pond 13-5 is a man made stock pond with a piped spring (approximately 50' x 30'). The pond is fed from a spring and seep located above the pond. (Gordon, 83)

Bowie Resources, LLC Bowie No. 1 Mine 2024 Annual Hydrology Report



### **Plot of Flow and Conductivity**

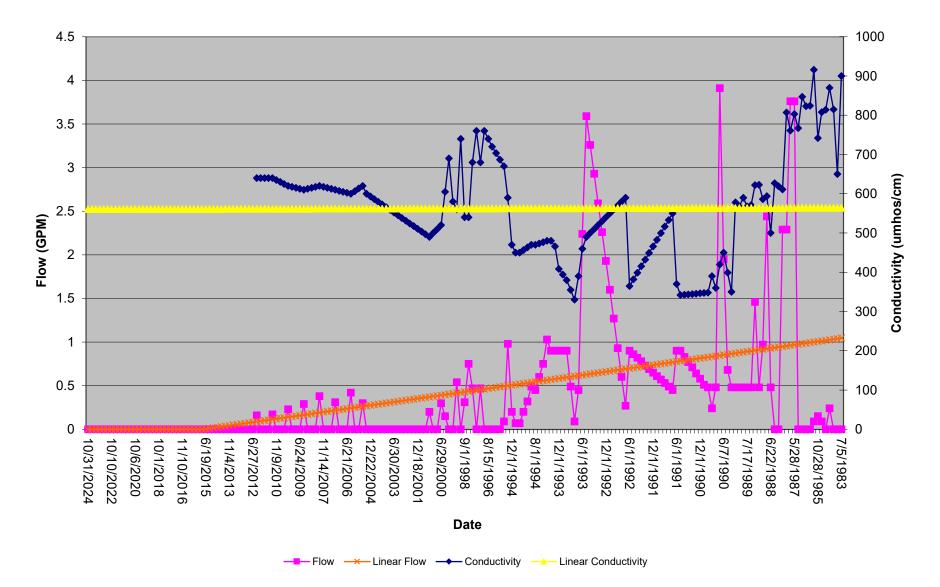
### SP1306 Steven's Gulch - Pond Spring 13-6 Depth 4' Elevation - 7590

						Initiated		7/5/1983	7/5/1983	7/5/1983
						Activate	d	1/1/1988	1/1/1988	1/1/1988
						Date		10/31/2024	8/20/2024	6/24/2024
		Summar	y Inform	ation						
Field		Baseline	•		Operatio	on				
Parameters	UNITS	Min	Ave	Max	Min	Ave	Max			
Flow	GPM	0	0.75	3.76	0	0.40	3.91	0	0	0
Freeboard	Feet	0	0.00	0	0	1.50	95			
Temperature	Celsius	5	14.0	24	0.3	12.8	25.6			
Conductivity	umhos/cm	611	787	916	330	510	760			
рН	su	7.2	7.8	8.4	6.9	8.0	8.9			
Field Comments								Dry	Dry	Dry
Lab										
Parameters	UNITS									
Bicarbonate	mg/L	407	431	470	280	340	410			
Carbonate	mg/L	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>3</td><td>26</td><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>3</td><td>26</td><td></td><td></td><td></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>3</td><td>26</td><td></td><td></td><td></td></mdl<></td></mdl<>	<mdl< td=""><td>3</td><td>26</td><td></td><td></td><td></td></mdl<>	3	26			
Chloride	mg/L	5	9	12	2	6	8			
Conductivity	umhos/cm	650	729	868	491	596	752			
Hardness	mg/L	325	370	423	242	305	414			
рН	su	7.6	7.98	8.3	7	7.9	8.6			
ResidueFilterable-TDS	mg/L	330	416	473	300	351	430			
ResidueNonFilterable-TSS	mg/L	4	22	40	6	26	76			
SAR		0.59	0.71	0.92	0.35	0.43	0.60			
Sulfate	mg/L	29	42	58	10	38	200			
Calcium (Dissolved)	mg/L	63	71.50	87	51.0	61.9	86.5			
Magnesium (Dissolved)	mg/L	39	46.50	50	28.0	36.7	48.0			
Sodium (Dissolved)	mg/L	27	31.50	40	13.0	17.6	23.0			
Potassium	mg/L				<mdl< td=""><td>1.50</td><td>6</td><td></td><td></td><td></td></mdl<>	1.50	6			
TDS Ratio (grav./calc.)					<mdl< td=""><td>0.77</td><td>1.08</td><td></td><td></td><td></td></mdl<>	0.77	1.08			

Note: Site inaccessible 1Q due to snow

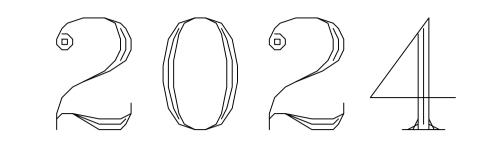
Spring and Pond 13-6 is a man made pond (approximately 25' x 25') and is fed by a spring located on the hillside above the pond. (Gordon, 83)

Pond is mostly breached, standing puddle (Hanna 4/24/14)



### **Plot of Flow and Conductivity**

## ANNUAL INFLOW REPORT







## P.O. BOX 483 PAONIA, COLORADO 81428 PERMIT C-1981-038

### PREPARED BY:





### ANNUAL MINE INFLOW REPORT

<u>2024</u>

Bowie No. 1 Mine

Bowie Resources, LLC

Paonia, Colorado

### Introduction

According to Stipulation No. 29, Permit No. C-1981-038, the operator submits the following Annual Mine Inflow Report for the period of July 1, 2016 through June 30, 2024.

### Mining Locations and Projections

Mining operations at Bowie No. 1 Mine have ceased due to market conditions and coal quality issues. It is highly unlikely mining operations will resume since the surface facilities have been reclaimed.

### Mine Inflow

The underground Mine Inflow Study at the Bowie No. 1 Mine was not conducted during 2024, as the mine was inactive and inaccessible.

No water was discharged from the mine to the surface during the 2017-2024 reporting period. The operator has no plans to discharge water from within the mine to the surface during the 2022-2019 reporting period. No water has been discharged from the mine to date.

### Water Importation and Balance

There was no production of coal from the Bowie No. 1 Mine from July 1, 2017 through June 30, 2024. Production estimates for the following twelve-month period remain at zero. Historically, mine water importation is estimated from recorded flows and the number on tons mined. With no coal production to base water usage upon, the operator submits only evaporative loss from ponds for the consumptive use during the water year. Evaporative loss is based upon the assumption that all of the ponds have full dead pool storage during the entire reporting period.

These water quantities are listed as:

'	Acre Feet
Dust Suppression on Bowie No. 1 Roadway	0.00
Bathhouse Consumption <sup>1</sup>	0.00
Evaporative Loss from Ponds	
Silo Usage	
Total water usage	4.60

### Hydrologic Impacts

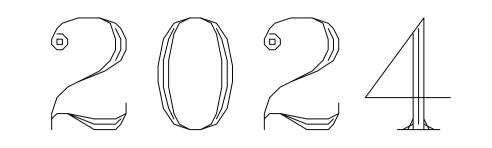
Historically, there was virtually no water inflow into the mine. Therefore, the hydrologic impact caused by the mining operation is either non-existent or not measurable.

### **Conclusions**

No mine discharge and no importation of water is anticipated during the 2022 - 2019 reporting period. Therefore, the quality and quantity of surface water adjacent to the mine will not be affected. The operator will continue to submit the Annual Subsidence and Hydrology Report which will summarize all subsidence and hydrology data.

<sup>&</sup>lt;sup>1</sup>Bathhouse has been dismantled.

# ANNUAL SUBSIDENCE REPORT







## P.O. BOX 483 PAONIA, COLORADO 81428 PERMIT C-1981-038

### PREPARED BY:





### ANNUAL SUBSIDENCE REPORT

<u>2024</u>

Bowie No. 1 Mine

Bowie Resources, LLC

Paonia, Colorado

### 2023 Production and Geologic Conditions

The Bowie No. 1 Mine suspended operations during December, 1997 and remained idle throughout the calendar year. The mine has been reclaimed.

### **Operation Unit Descriptions**

Bowie No. 1 Mine has no operating units to report on during the calendar year.

### Subsidence Impacts - 2023

With the approval of technical revision number 25, no subsidence monitoring stations were surveyed during the year.

### Wide-Spaced Monitoring Grid Station Summary

Through technical revision number 45, the DRMS approved a reduction in subsidence monitoring. The wide spaced subsidence monuments, Sites 6, 14, 15, 16, DH 55, DH 65, DH 66, DH 68, 81, 82, 83 and 95 were not monitored during the year.

### **Pitkin Mesa Pipeline**

Seven subsidence monitoring stations were established at locations along the Pitkin Mesa Pipeline which overlies Panel C. Panel C development commenced in October with twenty-four crosscuts completed by January 1, 1993. Panel C was mined utilizing a partial extraction design intended to preclude the development of subsidence in order to protect the pipeline. The subsidence monitoring stations along the pipeline are depicted on Map No. 2-5. Though technical revision number 57, the DRMS approved the cessation of subsidence monitoring of the seven (7) Pitkin Mesa Pipeline monitoring locations. These monitoring stations (PL-01 through PL-07) were last surveyed during 2013.

### Visual Monitoring 2023

Visual subsidence monitoring is accomplished by periodic "walkovers" of recently mined areas within the present permit area. During the 2018 monitoring season, visual monitoring consisted of visual inspections done while water monitoring.

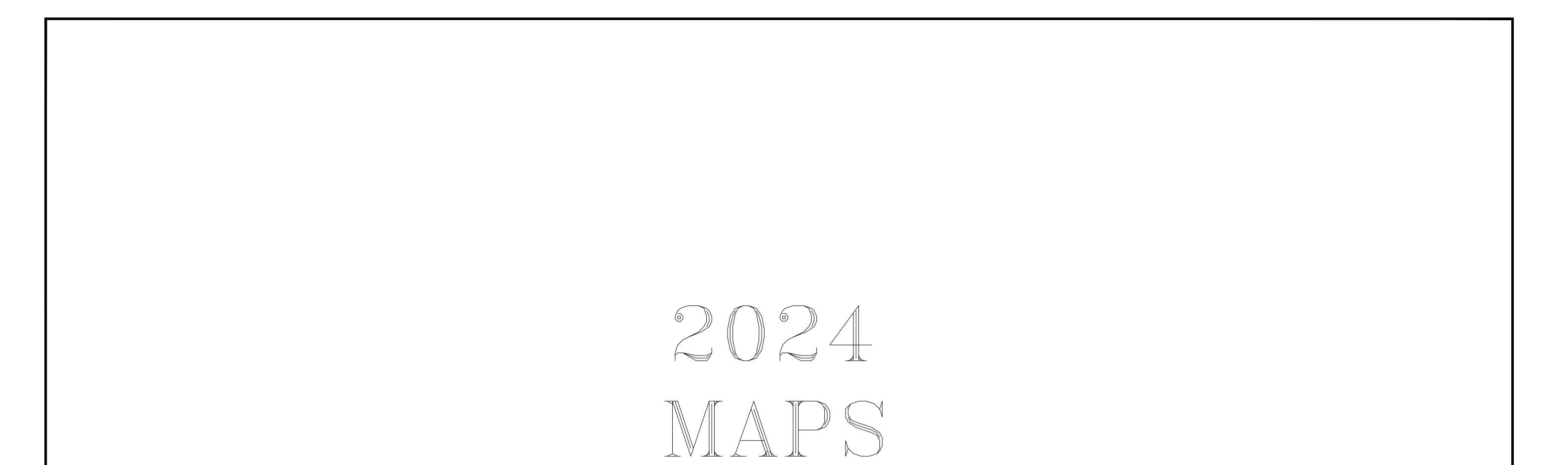
Visual monitoring is concentrated over areas of retreat mining with particular emphasis on areas mined under low overburden. Since the mine has now been idled in excess of 10 years, there are no areas of particular emphasis on which to concentrate visual inspections.

### **Projected Subsidence Impacts - 2023**

Subsidence impacts during 2023 are projected to be minimal based upon subsidence patterns established to date. No mining is currently projected for 2023.

### Projected Subsidence Monitoring – 2023

No subsidence monitoring will be performed in 2023.







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