

SB 89-181 Annual Report 2022

This annual report to the Water Quality Control Commission (WQCC) is required under the provisions of SB 89-181 and the Memorandum of Understanding (MOU) adopted by the Mined Land Reclamation Board (MLRB) and the WQCC. The Division of Reclamation, Mining and Safety (DRMS) is an implementing agency under the provisions of SB 89-181. As such, DRMS is responsible for ensuring that mine operators comply with state ground water quality standards. It is the responsibility of the WQCC to classify waters of the state and set standards for those classified waters.

If the WQCC has not set site specific ground water standards, DRMS uses the numeric protection levels, referenced in the WQCC adopted narrative groundwater standards, to set appropriate permit conditions to protect groundwater.

Active Mines / Minerals Program

DRMS analyzes all operations that have the potential to be classified as Designated Mining Operations (DMO) to ensure that their operations are protective of groundwater. All DMO sites are inspected at least annually. DRMS also requires non-DMO mining operations, including some aggregate operations, to initiate groundwater sampling where there is a potential for impacts to groundwater quality. Those found to have issues are added to this list.

As of this reporting period, the Minerals Program requires approximately 31 mine sites to conduct some type of groundwater quality monitoring. Of these sites, 26 are hard rock mining operations, and 5 are construction material extraction operations.

Please see the attached activity status, summaries and table for specific information about these sites for the 2022 reporting period.

Active Mines / Coal Program

The Colorado Coal Program currently regulates a total of 22 coal mines, of which seven were actively producing in 2022. The producing mines are both surface (2) and underground (5) operations. The remaining 15 mines are in various phases of reclamation or temporary cessation. The Coal Program also oversees the long term stability following reclamation of 4 sites that had their permits revoked and reclamation bonds forfeited. Approximately 70 percent of Colorado's coal production comes from underground mining operations. The predominant method of underground mining is longwall mining.

During the 2022 reporting period, the Coal Program accomplished the following functions:

- The Coal Program’s current requirements for ongoing monitoring and detailed pre-disturbance permitting will continue to provide proper groundwater quality protection.
- Conducted analyses regarding Points of Compliance at all of its active operations and all operations in current reclamation or cessation.
- Conducted reviews of Annual Hydrologic Reports submitted by operators. This allows for timely identification of hydrology sampling anomalies and deficiencies, in addition to water quantity and quality trends.
- Continued to focus on coal mine permitting activities regarding minimization of impacts to the hydrologic balance and prevention of material damage. These activities included the ongoing review and update of Cumulative Hydrologic Impact Analyses (CHIAs).
- Continued to conduct regular coal mine field inspections and monitoring activities regarding minimization of impacts to the hydrologic balance and prevention of material damage.

Please see the attached table for specific information about these sites.

Abandoned Mine Land Program

Nonpoint Source and Water Quality Improvement Projects

During 2022, final reclamation construction work was in-progress or completed on three legacy mining-related water quality improvement projects, and investigations and design is ongoing at nine other sites. Mine sites that underwent reclamation construction in 2022 included:

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| <ul style="list-style-type: none"> ● Mt. Emmons (ongoing), Gunnison Co. ● Irene Mine, Ouray Co. | <ul style="list-style-type: none"> ● Campground 4, San Juan Co. ● Matterhorn Mill, San Miguel Co. |
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The nine mine site projects currently underway to investigate, characterize, and develop final reclamation designs:

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| <ul style="list-style-type: none"> ● Daisy Mine waste rock reclamation, Gunnison Co. ● Sherman Mine, Lake Co. ● Perigo Mine, Gilpin Co. ● Carbonero, San Miguel Co. ● New Dominion, San Miguel Co. | <ul style="list-style-type: none"> ● Nelson Tunnel Remedial Investigation, Mineral Co. ● Bonita Peaks Mining District, San Juan Co. ● Governor Basin, San Miguel Co. ● East Mancos River Watershed Study, Montezuma Co. |
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In addition to these on-the-ground projects, DRMS continues to provide technical assistance to watershed groups and federal agency partners, and provides matching funds for additional projects sponsored by those groups. DRMS is actively engaged in the Colorado Mixed Ownership Group, which provides a unique perspective on legacy mine related issues.

In 2022, DRMS spent approximately \$800,000 on legacy mining-related water quality improvement projects, investigations and support. This total encompasses funding from all sources, including CDPHE NPS grants, agreements from BLM, USFS, EPA, private contributions, as well as state severance tax matching funds and local watershed grants.

Hard Rock Mining Operations

December 2022

Company-Mine Name-Permit #	Site Conditions	2022 Activity
<p>COLORADO MILLING COMPANY, LLC CASH AND WHO DO MINES (Permit No. M-1983-141) Boulder County (HR01)</p> <p style="text-align: center;">1</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 1 monitoring well ● 1 point of compliance well ● Sampling of Cash Mine Pool from 3rd Level Adit ● Sampling of Cash Gulch ● Samples are collected quarterly ● Water quality data is submitted quarterly <p><u>Narrative:</u> The water monitoring program is designed to detect impacts to water quality from the Cash Mine. The sampling program includes an upgradient well and a downgradient well.</p>	<ul style="list-style-type: none"> ● The site was last inspected on August 9, 2018. ● No problems or violations related to water quality have been issued during the reporting period. ● Technical Revision 11 was approved on Dec 1, 2022 for a new bulkhead to be installed at the Times Mine. The revision was submitted as a commitment made in AM-1 and will allow for underground water storage for milling operations. ● The site returned to active status in 2018; however, no mining or reclamation activities have occurred since that time. ● The operation is currently in compliance with the approved water monitoring plan.
<p>COLORADO MILLING COMPANY, LLC GOLD HILL MILL (Permit No. M-1994-117) Boulder County (HR02)</p> <p style="text-align: center;">2</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 3 monitoring wells ● 1 point of compliance well ● Samples are collected quarterly ● Water quality data is submitted quarterly <p><u>Narrative:</u> The groundwater monitoring program is designed to detect impacts to water quality from the tailings impoundment. All of the monitoring wells are located downgradient of the tailings impoundment.</p>	<ul style="list-style-type: none"> ● The site was last inspected on July 14, 2020. ● On Sept 13, 2022 the Operator submitted a conversion application to change the permit from a 110(2) to a 110d to allow milling at the site. The application is still incomplete and technical review of the application has not begun. ● No problems or violations related to water quality have been issued during the reporting period. ● No permit revisions related to water quality have been issued during the reporting period. ● The site returned to active status in 2018; however, no mining or reclamation activities have occurred since that time. ● The operation is currently in compliance with the approved water monitoring plan.

<p>CLIMAX MOLYBDENUM COMPANY HENDERSON MINE AND MILL (Permit No. M-1977-342) Clear Creek and Grand Counties (HR03)</p> <p>3</p>	<p>The approved groundwater monitoring plan consists of:</p> <ul style="list-style-type: none"> • 40 monitoring and extraction wells <ul style="list-style-type: none"> ○ Mill - 37 active wells ○ Mine - 3 active wells • 3 point of compliance wells <ul style="list-style-type: none"> ○ Mill - 2 POC wells ○ Mine - 1 POC well • Groundwater samples are collected three times per year. • Water quality data is submitted annually. <p><u>Narrative:</u></p> <p>This site is a Designated Mining Operation (DMO) The groundwater monitoring program is designed to detect impacts to water quality from the tailings impoundment and mine facility. The monitoring wells are located downgradient and upgradient of the tailings impoundment and mine facility.</p>	<ul style="list-style-type: none"> • The site was last inspected on November 08, 2022 • MNGW-1 is the POC well for the Henderson Mine affected land. Hydrologic monitoring in 2022 indicated pH levels below the NPLs. The Operator maintains the low pH conditions at the well are consistent with historic pH levels at this monitoring location. However, DRMS is working with CMC on verification . • No permit revisions related to water quality have been issued in the reporting period. • Mining and milling activities are on-going.
<p>BATTLE MOUNTAIN RESOURCES INC. SAN LUIS PROJECT (Permit No. M-1988-112) Costilla County (HR04)</p>	<ul style="list-style-type: none"> • The site has 21 total groundwater monitoring wells • 4 of those wells are Compliance Wells • Sampling is conducted monthly and quarterly for respective items • Reporting is submitted Quarterly and Annually for respective items. <p><u>Narrative:</u></p> <p>This site is a DMO. The ground water monitoring program requires monitoring at twenty-one wells, including several water wells located outside the permit area.</p> <p>Groundwater monitoring is conducted at this site to verify containment of cyanide solution at the lined mill tailings facility and to assess the</p>	<ul style="list-style-type: none"> • The site is in full reclamation, • The site was last inspected on December 27, 2022. • No problems were cited nor violations issued • No Permit revision related to water quality have been issued in the reporting period • The operation is currently in compliance with all applicable water quality standards.

4	<p>progress of groundwater management in the West Pit. West Pit groundwater quality is managed by pumping to prevent contact with polluting strata. The pumped water is then treated and discharged as regulated by the WQCD. The primary treatment is for fluoride and manganese.</p>	
5	<p>CAREUS CROSS TIMBERS LLC COLONY OIL SHALE PROJECT (Permit No. M-1980-047) Garfield County (HR05)</p> <ul style="list-style-type: none"> • 2 groundwater monitoring wells and 1 surface water sample point • No required sampling or reporting for compliance • Sampling quarterly for Metals, Anions and Organics. No change in levels for 20+ years planning on scaling back to annual sampling • Will provide sampling results voluntarily through annual report <p><u>Narrative:</u> No water quality reporting required by the permit. Operator has elected to sample and provides the Division with results. In the process of exploring alternative uses (agriculture-livestock) for wells rather than abandoning them.</p>	<ul style="list-style-type: none"> • Last inspected 4/28/2021 • No recent Problems cited/Violations issued • Site remains in final reclamation-working towards repurposing existing disturbances and reclamation release • The operation is currently in compliance with all applicable water quality standards
	<p>OCCIDENTAL OIL SHALE, INC. LOGAN WASH (Permit No. M-1977-424) Garfield County (HR06)</p> <ul style="list-style-type: none"> • 2 monitoring wells • 1 compliance wells • Sampling occurs semi-annual (usually May and October) • Data reported annual through Annual Report <p><u>Narrative:</u> Final reclamation of the main facilities began during summer 2003 and continued through 2008. Discharge of water from within the sealed mine consists of mine water and retort water. Mine water from the lower portal and from the research portal are monitored for flow rate</p> <p>Two wells, Well LWCW-1A and Well LW-22A, have been sampled for water quality on a semi-annual basis. Well LW-22A, was dropped from the</p>	<ul style="list-style-type: none"> • Last inspected 10/12/2022 • No recent Problems cited/Violations issued • Acreage Reduction (AR-3) approved on 10/31/2022 which reduced the permit acreage from 10.55 ac to 26 ac. All other land will remain as long as sampling and water treatment is required. • The Site is in full reclamation. Remaining features are associated with treatment of retort water and sampling • The operation is currently in compliance with all applicable water quality standards <p>Mine water and retort water are monitored monthly at the portal locations for flow rates. The retort water discharges to an evaporation pond.</p>

<p>6</p>	<p>sampling program in 2020. Well LWCW-1A will remain in place as a monitoring well until final permit closure.</p> <p>Four wells (LW-32, LW-45, LW-103, and LW-116) remain in place but will be scheduled for abandonment in the future.</p> <p>Additional surface water quality and quantity samples taken of the mine water, retort water, and evaporation pond samples. The analytical results for samples collected during the reporting period do not indicate an improvement of retort water quality compared to past sampling events.</p>	
<p>7</p> <p>LKA INTERNATIONAL, INC. GOLDEN WONDER MINE (Permit No. M-1978-091 UG) Hinsdale County (HR07)</p>	<ul style="list-style-type: none"> ● Mine water discharge reports to a treatment system, ● Primary water quality concerns are pH average of 2.5 at a flow rate of 1 gallon per minute. <p><u>Narrative:</u></p> <p>This site is a DMO. The water monitoring program for this site is for surface water. The surface water sampling and reporting outfalls are related to their storm water and industrial discharge permits respectively. No groundwater is sampled, or reported for this site other than at the pre-treatment location.</p>	<ul style="list-style-type: none"> ● The site was last inspected on December 8, 2021. ● No mining activities were reported in 2021-2022. ● The Operator was found in violation of CRS.34-32-116(7)(g) for failure to minimize disturbance to the prevailing hydrologic balance during the December 2021 MLRB hearing. ● CDPHE issued two notice violations (IO-200813-1 & IP-200813-1) and Civil Penalty of \$264,602.00 on August 13, 2020. ● The water treatment system has been operational and the Operator has been managing water in accordance with the Permit. ● The Operator has complied with all conditions of the enforcement action and the DRMS Permit is in good standing.
<p>COLORADO LEGACY LAND, LLC SCHWARTZWALD ER MINE (Permit No. M-1977-300) Jefferson County (HR08)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 12 monitoring wells (an additional bedrock well will be installed downgradient of the mine in 2023 to further demonstrate an inward hydraulic gradient is being maintained in the mine). 	<ul style="list-style-type: none"> ● The site was last inspected on November 10, 2022 (during this time, the mine pool was at 264.5 feet below Steve level, which is 114.5 feet below the required 150 foot depth). ● Operator continues to remove radionuclide impacted alluvial soils from the valley and dispose of this material underground and via an

	<ul style="list-style-type: none"> ● Raw feed (mine pool sampled from spigot inside water treatment plant). ● Master sump downgradient of mine (alluvial groundwater). ● 12 stream monitoring locations (in Ralston Creek). ● 1 point of compliance stream monitoring location (at permitted outfall downstream of mine). ● Samples are collected quarterly ● Water quality data is submitted quarterly ● Mine pool elevations are recorded daily and submitted quarterly <p><u>Narrative:</u></p> <p>This site is a DMO. The water monitoring program is designed to detect impacts to water quality from the Schwartzwalder Mine, the two historic waste rock piles, and the contaminated alluvial valley fill material.</p> <p>The operator keeps the mine pool pumped down a minimum of 150 feet below the Steve Level in accordance with the October 4, 2012 MLRB Order. This is done to establish a hydraulic gradient away from Ralston Creek.</p> <p>The pumped mine water is treated in the on-site treatment plant using a reverse osmosis system and an ion exchange system (as needed). The operator also performs periodic in-situ treatments of the mine pool to maintain current uranium and molybdenum concentrations.</p> <p>The surface water monitoring locations along Ralston Creek include: a location upstream from the mine, 7 locations within the mine impacted area, and 5 locations downstream of the mine.</p>	<p>extension of the existing South Waste Rock Pile (expect to complete in 2023).</p> <ul style="list-style-type: none"> ● Amendment No. 6 was approved by the MLRB on October 19, 2022 (application received objections from Denver Water and the City of Arvada). AM-6 provides a conceptual site model, a plan addressing the physical and chemical stabilization of the mine pool, specifically addressing the concentrations of dissolved uranium and other constituents as required under the conditions of the permit, and updated reclamation and environmental protection plans. AM-6 also provides a plan addressing the long term cost of operating the water treatment plant and managing the mine pool, based on a minimum of 3 consecutive years of data which verify the physical and chemical stabilization of the mine pool. ● DRMS is currently calculating the required financial warranty for the site based on long term (20 years) operation of the water treatment plant. ● Mining ceased in 2000; the site is in final reclamation. ● No problems or violations related to water quality have been issued during the reporting period. ● The operation is currently in compliance with the approved water monitoring plan.
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8	<p>Because creek flows are captured at the upgradient cutoff wall and routed around the mine site via pipeline (to be discharged at the permitted outfall SW-BPL), the 6 monitoring locations within the mine impacted area (below the cutoff wall) are typically dry.</p>	
9	<p>DEADWOOD GULCH MINING CO. INCAS MINE (Permit No. M-1986-076) La Plata County (HR09)</p> <ul style="list-style-type: none"> ● This site has no Groundwater monitoring wells ● This site has no compliance wells ● Samples are to be taken monthly from the underground workings when mining and milling activities are being conducted. <p>This site is a DMO. The facility is permitted for a cyanide vat leach system to leach gold and silver, and previously produced small (~10 tons per year) quantities of tailings. The site is required to sample surface and groundwater during the seasons that its mill and leaching facility is active. The site is monitored for pH, EC, TDS, sulfate and WAD cyanide. The site is in its Second Term of Temporary Cessation. No mining or milling activities have taken place since the mid 1990's. As a result, no water quality monitoring has been required.</p>	<ul style="list-style-type: none"> ● The site was last inspected on August 16, 2022. ● No problems or possible violations were cited ● The site is in final reclamation. ● No revisions related to water quality monitoring or reporting were conducted in the reporting period ● The site is in compliance with all applicable permits.
10	<p>SUNRISE MINING LLC MAY DAY IDAHO MINE COMPLEX (Permit No. M-1981-185) La Plata County (HR10)</p> <ul style="list-style-type: none"> ● The site has 4 monitoring wells ● 1 Compliance well ● Sampling is conducted quarterly ● Reporting is done annually <p>This site is a DMO. The permit was updated as part of AM-2 in 2016-2017. The groundwater and surface water monitoring program continued through 2019, with no exceedances until 2019 when the site was placed in Temporary Cessation. Water quality monitoring was suspended during TC and is currently not being sampled as the site is still in TC.</p>	<ul style="list-style-type: none"> ● The site was last inspected on August 16, 2022 ● No problems were cited nor violations issued ● No revisions related to water quality were conducted during the reporting period ● The site is in its first term of Temporary Cessation ● At the conclusion of monitoring in 2019 the site was in compliance with all water quality standards.
	<p>RESURRECTION MINING CO. BLACK CLOUD MINE</p> <p>The approved groundwater monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 6 monitoring wells 	<ul style="list-style-type: none"> ● The site was last inspected October 18, 2022 ● No problems were cited or violations issued

<p>(Being Reclaimed under a Consent Decree File No. M-2008-083) Lake County (HR11)</p> <p>11</p>	<ul style="list-style-type: none"> ● 1 surface water sampling station ● 1 point of compliance well ● Groundwater samples are collected quarterly ● Water quality data is submitted annually <p><u>Narrative:</u></p> <p>The approved groundwater monitoring plan specifies quarterly monitoring of wells and the surface water sampling station cross gradient and downgradient from the tailing impoundment. The point of compliance is established down gradient of the impoundment and numeric protection levels are established. The Black Cloud Mine pool is pumped and piped to the Yak Tunnel Water Treatment Plant.</p>	<ul style="list-style-type: none"> ● There were no permit revisions in 2022 ● Reclamation activities at the site were completed in 2014. Only monitoring and minor maintenance activities have occurred since then. Quarterly groundwater and surface water samples were collected on March 2, May 11, August 3, and November 2, 2022 ● The operation is currently in compliance with all applicable water quality standards
<p>ENERGY FUELS RESOURCES CORPORATION, INC. WHIRLWIND MINE (Permit No. M-2007-044) Mesa County (HR12)</p> <p>12</p>	<ul style="list-style-type: none"> ● 1 monitoring wells ● 1 compliance wells ● Sampled and Reported quarterly <p><u>Narrative:</u></p> <p>This site is a DMO. This site is located entirely on BLM. The mine is in active status as of 6/7/2022 after being in temporary cessation for nearly 10 years. Extensive safety rehab work is required prior to further development of on site resources. The Operator is working to develop and fabricate a new water treatment facility which is anticipated to be installed in 2023 after all necessary permitting approvals from the various agencies.</p> <p>Groundwater sampling is required to be conducted and submitted to DRMS on an annual basis. The mine has a water treatment and discharge permit through WQCD. No treatment or discharge occurred in 2022.</p>	<ul style="list-style-type: none"> ● Site last inspected 11/7/2022 ● No recent Problems cited/Violations issued ● Change of Status (CS-1) approved on 6/7/2022 which ended TC-2 and put the mine back into active status ● All 2022 activity has been safety rehab work of existing tunnels. No production or further ore development has been conducted. Rehab work will continue into 2023. Prior to further development of mine workings, the mine will need to be dewatered which will require upgrading/replacing the current water treatment system on site. ● The operation is currently in compliance with all applicable water quality standards.

<p>RIO GRANDE SILVER, INC. BULLDOG MINE (Permit No. M-1977-215) Mineral County (HR13)</p> <p>13</p>	<ul style="list-style-type: none"> • The site has 4 monitoring wells • None of the wells are designated as compliance wells • The wells are sampled and reported annually while the site is in Temporary Cessation <p><u>Narrative:</u></p> <p>This site is a DMO. Rio Grande Silver (RGS) has an Environmental Protection Plan (EPP) which includes a water sampling and monitoring program. RGS has been voluntarily sampling surface water throughout their unpatented claim area. Groundwater is monitored and reported annually. In November of 2021 the site returned to an active status, and dewatering operations as well as exploration activities were conducted in 2022. Discharged water goes into retention ponds for evaporation and there is no discharge.</p>	<ul style="list-style-type: none"> • The site was last inspected on August 31, 2022 • No recent problems have been cited nor violations issued • The mine returned to an active status on December 1, 2021 • The operation is currently in compliance with all applicable water quality standards
<p>COTTER CORPORATION JD-7 PIT (Permit No. M-1979-094HR) Montrose County (HR14)</p> <p>14</p>	<p><u>Narrative</u></p> <p>This mine is a DMO. DRMS has the required Environmental Protection Plan (EPP). The site is currently in permanent cessation. Reclamation activities are slated to begin in 2024.</p>	<ul style="list-style-type: none"> • The site was last inspected on November 9, 2021 • No problems were cited nor violations issued
<p>COTTER CORPORATION JD-9 MINE (Permit No. M-1977-306) Montrose County (HR15)</p> <p>15</p>	<p><u>Narrative</u></p> <p>This mine is a DMO. DRMS has the required Environmental Protection Plan (EPP). The site is currently in permanent cessation. Reclamation activities are slated to begin in 2024.</p>	<ul style="list-style-type: none"> • The site was last inspected on October 11, 2022 • No problems were cited nor violations issued

<p>CAMP BIRD COLORADO, INC. CAMP BIRD MINE (Permit No. M-1982-090) Ouray County (HR16)</p> <p>16</p>	<ul style="list-style-type: none"> • The site has no groundwater or compliance wells • all surface water monitoring is conducted quarterly • water quality data is submitted annually <p><u>Narrative:</u> After several years of reclamation activity, the operator began new surface activity including reconstruction of a sedimentation pond and a pipeline conveying portal discharge to the pond. The operator has applied for a new or renewed discharge permit from WQCD. Upstream and downstream surface water sampling has begun on a quarterly basis.</p>	<ul style="list-style-type: none"> • The site was last inspected on August 23, 2021. • No problems were cited nor possible violations issued • No permit revisions related to water quality have been issued during the reporting period. • No mining activities have occurred, surface reclamation including reseeded was conducted in September 2021. • The operation is currently in compliance with all applicable water quality standards
<p>FORTUNE REVENUE SILVER MINES, INC. REVENUE MINE (Permit No. M-2012-032) Ouray County (HR17)</p> <p>17</p>	<ul style="list-style-type: none"> • The site has 6 monitoring wells • The site has no compliance well, compliance is monitored at their surface water outfall • Water quality samples are taken quarterly • Water quality reporting is conducted annually <p><u>Narrative:</u> This site is a DMO. The main portal discharges water that is piped to a lined settling pond, to reduce suspended zinc before it is piped to a passive bioreactive treatment system which then discharges at a surface water discharge point. Operator is required to monitor surface and groundwater and implement a mine water handling plan. Sampling plan includes six locations for groundwater and four locations for surface water.</p>	<ul style="list-style-type: none"> • The site was last inspected on August 25, 2022. • No problems were cited or violations issued related to water quality • AM-2 has been approved and issued which included updates to the mining and reclamation plans as well as adding additional acreage to the Permit. • The site is in Temporary Cessation approved on November 16, 2022 • The operation is currently in compliance with all applicable water quality standards for surface and groundwater.
<p>SOLVAY CHEMICALS, INC. YANKEE GULCH PROJECT (Permit No. M-1999-002) Rio Blanco County (HR18)</p>	<p><u>Narrative:</u> This site is a DMO. American Soda ceased production in 2004 and started reclamation of the site. Site was transferred to Solvay in 2016. <u>Site is under full reclamation.</u> All wells have been plugged and abandoned and reclaimed.</p>	<ul style="list-style-type: none"> • Last inspected 7/30/2019 • No problems or violations have been issued in the reporting period. • Site is in full final reclamation, vegetation continues to be monitored for reclamation success. • The operation is currently in compliance with all applicable water

18		quality standards.
NATURAL SODA, INC. NAHCOLITE PROJECT (Permit No. M-1983-194) Rio Blanco County (HR19)	<ul style="list-style-type: none"> • 25 of monitoring wells • 25 of compliance wells • Sampling frequency is well specific-Monthly, quarterly, and annually or a combination • Data is reported annually through annual report <p><u>Narrative:</u> This mine is a DMO. The groundwater monitoring plan has 25 active monitoring wells located at the mine with water quality samples obtained from discrete zones. A total of seven wells are equipped with continuous water level measurement transducers and data acquisition and storage systems. Groundwater monitoring includes water levels and over 50 water quality parameters.</p> <p>An annual monitoring report is submitted to DRMS, the BLM and the EPA.</p>	<ul style="list-style-type: none"> • Last inspected 12/9/2022 • No problems or violations have been issued in the reporting period • The six wells were plugged and abandoned in 2022; 16H-R(I), 3M-TDR, 90-1(WSW), BG-1, DS-2, DVPW-1(A) • TR-48 Approved on 1/18/2022 and completed in fall of 2022. Drilling and Completion of Subsurface Subsidence Monitoring Well 17H-1V SSMW located on the pre-existing 16-17H-1V pad • TR-49 Approved on 9/22/2022 and completed fall of 2022. Move location of previously approved well 17H-1V SSMW per EPA requirements • The operation is currently in compliance with all applicable water quality standards.
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PINON RIDGE MINING, LLC SUNDAY MINE (Permit No. M-1977-285) San Miguel County (HR21)	<p>This site is part of the Sunday Mine Complex, Operated and monitored collectively.</p> <ul style="list-style-type: none"> • The Sunday Mine Complex has 4 monitoring wells • 1 compliance well • Groundwater samples are collected semi-annually • Water quality data is submitted annually <p><u>Narrative:</u> This mine is a DMO. Lower portions of the underground workings accumulate groundwater. No pumping or other water management is currently occurring. Accumulation of mine pool water has apparently equilibrated, during several years of temporary cessation, and the flooded portion of the workings is not expanding.</p>	<ul style="list-style-type: none"> • The site was last inspected on May 19, 2022 • No problems were cited nor violations issued • No permit revision related to water quality have been issued during the reporting period • All mines associated with the Sunday Complex are listed as active, work includes surface and underground development above groundwater levels • The site is not currently impacting groundwater, therefore in compliance with all applicable water quality standards.
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<p>PINON RIDGE MINING, LLC WEST SUNDAY MINE (Permit No. M-1981-021) San Miguel County (HR22)</p> <p>21</p>	<p>This site is part of the Sunday Mine Complex, operated and monitored collectively.</p> <p>This mine is a DMO.</p>	<ul style="list-style-type: none"> • The site was last inspected on May 19, 2022.
<p>PINON RIDGE MINING, LLC TOPAZ MINE (Permit No. M-1980-055 HR) San Miguel County (HR23)</p> <p>22</p>	<p>This site has been ordered into final Reclamation by the Mined Land Reclamation Board. It will be removed from the list for 2023. No groundwater impacts from the limited disturbance were observed in the mine history.</p>	<ul style="list-style-type: none"> • The site was last inspected on May 19, 2022 • No problems were cited
<p>CLIMAX MOLYBDENUM COMPANY CLIMAX MINE (Permit No. M-1977-493) Summit, Lake, and Eagle Counties (HR24)</p> <p>23</p>	<p>The approved groundwater monitoring plan consists of:</p> <ul style="list-style-type: none"> • 17 monitoring wells • 5 point of compliance wells • Groundwater samples are collected quarterly • GW#2, located in the Tenmile Drainage, is monitored monthly for pH • Water quality data is submitted annually <p><u>Narrative:</u></p> <p>The groundwater monitoring program is designed to detect impacts to water quality from the mining and milling operations. The operation has the potential to affect 3 distinct drainages. POC wells are located downstream of the operation in each of the 3 drainages. DRMS and CDPHE staff continue discussions on water quality issues with the operator.</p>	<ul style="list-style-type: none"> • The site was last inspected October 17, 2022 • No problems were cited or violations issued • One permit revision related to water quality was processed in 2022. The revision added an additional water treatment facility to the site for additional removal of molybdenum. • The site is active • The operation is currently in compliance with all applicable water quality standards

<p>CRIPPLE CREEK & VICTOR GOLD MINING COMPANY CRESSON PROJECT (Permit No. M-1980-244) Teller County (HR25)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> • 25 monitoring wells • Samples are collected quarterly • Water quality data is submitted quarterly • Monthly sampling and reporting is currently required for the following locations in Grassy Valley: Two East Cresson Overburden Storage Area (ECOSA) seeps, ECOSA monitoring well GVMW-25, and a new downgradient surface water monitoring location GV-06 in Grassy Creek. This requirement is associated with a problem cited by DRMS on September 30, 2022 pertaining to the August 2022 sampling data provided for GVMW-25 which showed spikes in several analytes. November 2022 sampling data for GVMW-25 indicates the elevated concentrations are coming back down. <p><u>Narrative:</u></p> <p>This mine is a DMO. The groundwater monitoring program is designed to detect impacts to water quality from the mining operation. CC&V collects groundwater samples from 25 monitoring wells around the site on a quarterly basis. The monitoring wells are located downgradient in multiple drainages surrounding the mining operation which include:</p> <ul style="list-style-type: none"> • 5 monitoring wells in Grassy Valley • 3 monitoring wells in Poverty Gulch • 5 monitoring wells in Rosebud Gulch (formerly Squaw Gulch) 	<ul style="list-style-type: none"> • The site was last inspected on January 5, 2023. • On August 5, 2022, DRMS approved TR-129 to identify Point of Compliance (POC) wells for each drainage, including 3 new POC wells to be installed in Grassy Valley, Rosebud Gulch, and Poverty Gulch. The new POC wells will be installed in Q2 2023 and data from these wells submitted no later than Q3 2023. • DRMS is currently reviewing TR-132 submitted on October 27, 2022 with an updated ECOSA monitoring plan. This revision was a corrective action required for a problem cited by DRMS on September 30, 2022 (see additional details at left). TR-132 includes an updated surface water monitoring program to include the new Grassy Creek monitoring location GV-06, a detailed monitoring and reporting program for the ECOSA seeps, and a short-term management plan for the seeps during active mining operations. The required long-term plan for final closure will be submitted in a separate Technical Revision by June 30, 2023. • The permit is Active. Constant mining and processing occurred during the reporting period. • Results from the quarterly groundwater sampling show up to 15 monitoring wells had exceedances. Analytes that were frequently exceeded were fluoride, manganese, sulfate, and pH. Other analytes that were less frequently exceeded were aluminum, beryllium, cadmium, cobalt, copper, nickel, selenium, uranium, zinc and nitrate in its various forms in the same wells. The Division and CC&V continue to evaluate the potential sources of the exceedances and paths to address the issue.
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<p>24</p>	<ul style="list-style-type: none"> ● 2 monitoring wells in Vindicator Valley ● 2 monitoring wells near Wilson Creek ● 8 monitoring wells in Arequa Gulch. <p>The Division continues to receive exceedance notifications as required by Rule 3.1.7(9).</p>	<ul style="list-style-type: none"> ● The operator is currently performing a statistical analysis on the groundwater quality data available for the site to assess any trends that have occurred over time. The results of this analysis will be presented in an upcoming Technical Revision (currently planned for January 2023). This revision will propose NPLs for each of the 6 drainages based on the results of the statistical analysis.
<p>25</p> <p>VENTURE RESOURCES, INC. HUKILL GULCH MILLSITE (PERMIT NO. M-2009-076) Clear Creek County (HR26)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 2 monitoring wells ● 1 point of compliance well ● Samples are collected quarterly ● Water quality data is submitted quarterly <p><u>Narrative:</u> This mine is a DMO. The groundwater monitoring program is designed to detect impacts to water quality from the tailings impoundment. The monitoring wells are located upgradient and downgradient of the tailings impoundment.</p>	<ul style="list-style-type: none"> ● The site was last inspected on December 17, 2021. ● No problems or violations related to water quality have been issued during the reporting period. ● No permit revisions related to water quality have been issued during the reporting period. ● The site was inactive during the reporting period. ● The operation is currently in compliance with the approved water monitoring plan.
<p>GRAND ISLAND RESOURCES LLC CROSS GOLD MINE (Permit No. M-1977-410) Boulder County (HR27)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 2 surface water monitoring locations one upgradient and one down gradient of mine, ● 3 groundwater monitoring wells, ● 1 point of compliance well, ● 2 mine portal effluent locations, ● Samples are collected quarterly and, 	<ul style="list-style-type: none"> ● The site was last inspected on December 16, 2022. ● The MLRB Board lifted the Ordered Cease and Desist Order on January 18, 2023. However any work must be approved by the Division for impacts to the hydrologic balance and is prohibited from performing any underground activities unless approved by Division in writing. ● Amendment 2 was approved in Feb 2022 adding 1.04 acres to the permit area and revising the mining and reclamation plans for the site. ● Technical Revision 10 was approved in April 2022 establishing a groundwater and surface water monitoring

<p>26</p>	<ul style="list-style-type: none"> Water quality data is submitted quarterly <p><u>Narrative:</u></p> <p>The permit includes two draining adits: the Cross Mine Portal and the Idaho Tunnel Portal (Caribou Mine). The mine drainage must be actively managed and treated in order to meet discharge standards (into Coon Track Creek).</p> <p>A new water treatment program consists of routing the water through a series of lined settling ponds prior to water treatment. Water treatment consists of filtering water through a series of 5 micron filters to remove TSS and then the water is treated through a polishing medium to remove TDS prior to discharge at a CDPHE approved discharge point on Coon Track Creek.</p>	<p>program for the site and providing details of a new water treatment process.</p> <ul style="list-style-type: none"> The Operator is currently collecting quarterly surface and groundwater samples for the site. Additionally, the Operator has collected two of five quarters of groundwater analytical data to determine baseline groundwater quality conditions for the site. The site has been in compliance with their monthly CDPHE discharge requirements except for the month of March 2022 when there was an exceedance for Iron. The site returned to active status in 2018. However, only surface activities were allowed during 2022 due to the Cease and Desist Order. A required Designated Mining Operation application is expected in July of 2023.
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Construction Materials Operations

December 2022

Company-Mine Name-Permit #	Site Conditions	2022 Activity
<p>CEMEX, INC. LYONS QUARRY (Permit No. M-1977-208) Boulder County (CM01)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> 2 monitoring wells 1 point of compliance well Sampling of C-Pit (CKD disposal pit) Samples are collected quarterly Water quality data is submitted quarterly <p><u>Narrative:</u></p> <p>The permit authorizes the on-site operation of a cement manufacturing plant and on-site disposal of Cement Kiln Dust (CKD) generated by the plant (into the C-Pit).</p>	<ul style="list-style-type: none"> The site was last inspected on March 3, 2022. No problems or violations related to water quality have been issued during the reporting period. No permit revisions related to water quality have been issued during the reporting period.

<p>27</p>	<p>The water monitoring program is designed to detect impacts to water quality from the C-Pit. All three wells (including one alluvial well and two bedrock wells) are located downgradient of C-Pit.</p> <p>Groundwater protection requirements include: backfilling the C-Pit with overburden and shale from ongoing quarry operations to reduce ponded water in C-Pit to less than one-half acre, and lining portions of the Boulder Feeder Canal near C-Pit to reduce seepage into the pit.</p>	<ul style="list-style-type: none"> ● Mining at the site is complete. ● The cement plant was fed by the operator's permitted quarry north of CO-66/Ute Hwy, the Dowe Flats Mine (Permit No. M-1993-041) ● Boulder County Commissioners denied the operator's Special Use Permit for Dowe Flats and that site will begin final reclamation activities. ● The operation is currently in compliance with the approved water monitoring plan.
<p>28</p> <p>HOLCIM US, INC. PORTLAND LIMESTONE (Permit No. M-1977-344) Fremont County (CM02)</p>	<p>Holcim continues to monitor groundwater to evaluate potential release of contaminants from cement kiln dust (CKD) stored on site. Three wells are designated as compliance and monitoring wells to be monitored for TDS, sulfate (SO4), potassium (K), sodium, K:Na ratio, total iron (Fe) and manganese (Mn). DRMS has stipulated if the concentrations of the parameters analyzed in MW-7 & MW-13 exceed their respective NPL by more than 10%, semi-annual sampling for those parameters would commence.</p> <p>The required parameters and numeric protection levels for MW-7 and MW-13, respectively are:</p> <ol style="list-style-type: none"> 1) TDS (mg/L): 3918, 4026 2) SO4 (mg/L): 2080, 2200 3) K (mg/L): 17, 13 4) Na: K ratio: 0.5 5) Fe (mg/L): 4.5, 0.13 6) Mn (mg/L): 0.88, 0.30 	<ul style="list-style-type: none"> ● The quarry site was last inspected on July 19, 2022. ● Data is collected and submitted to DRMS annually. ● Exceedances reported in 2022 were for total Fe in MW-7 at 8.9 mg/L and sulfate in MW-13 at 2420 mg/L. However, dissolved Fe was below Table Value Standards and sulfate was less than 10% over the 2200 mg/L DRMS NPL, therefore not requiring an increased frequency in sampling. TSS was added to the list of analytes in 2021 to Monitor the correlation of concentrations of suspended solids and total iron.

<p>HOLCIM, INC. BOETTCHER LIMESTONE QUARRY (Permit No. M-1977-348) Larimer County (CM03)</p>	<p>The approved water monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 8 monitoring wells ● Samples are collected semi-annually ● Water quality data is submitted semi-annually <p><u>Narrative:</u></p> <p>The water monitoring program is designed to detect impacts to water quality from the cement kiln dust (CKD) disposed of on site in unlined pits (A2 Pit, A2-A Pit, and Dry Fill CKD Pit).</p> <p>The groundwater monitoring program includes one well installed in the CKD disposal area, 5 wells located downgradient of the CKD disposal area, and 2 “background” wells installed outside of the CKD disposal area, one of which (MW-8) was installed in 2020 per Technical Revision No. 11 (TR-11).</p> <p>Per TR-11, depending on the results of water quality data collected from the new background well (MW-8), the operator may install a compliance monitoring well (MW-9), the location of which will be addressed in a separate revision.</p> <p>Due to the low hydraulic conductivities at the site, it is anticipated that at least six rounds of the semi-annual groundwater sampling of MW-8 will be needed in order to have sufficient data representative of in-situ conditions to analyze. To date, the operator has provided four semi-annual monitoring reports that include data from MW-8. This means another two sampling events may be required before sufficient data has been collected to analyze.</p> <p>The site has been largely reclaimed, and the CKD disposal area has been capped and revegetated. In order to release the permit, the operator must provide sufficient demonstration that the water quality observed in monitoring wells installed downgradient of the CKD disposal area is representative of natural conditions, and not of CKD impacts.</p>	<ul style="list-style-type: none"> ● The site was last inspected on August 31, 2022. ● No problems or violations related to water quality have been issued during the reporting period. ● No permit revisions related to water quality have been issued during the reporting period. ● Mining ceased in 2002; the site is in final reclamation. ● The operation is currently in compliance with the approved water monitoring plan.
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29	DRMS is evaluating the ongoing monitoring results, and will determine if additional characterization will be required, or if the site is eligible for final closure.	
<p>GCC RIO GRANDE, INC. PUEBLO CEMENT PLANT AND LIMESTONE QUARRY (Permit No. M-2002-004) Pueblo County (CM04)</p>	<p>The approved groundwater plan monitoring plan consists of:</p> <ul style="list-style-type: none"> ● 10 monitoring wells ● 1 point of compliance ● Groundwater wells are sampled quarterly ● Groundwater quality data is submitted annually <p><u>Narrative:</u></p> <p>The groundwater monitoring program is designed to provide a spatial distribution of site water quality monitoring (upgradient and down gradient of mining and reclamation activities) and allow for the determination of groundwater flow and gradient across the site.</p> <p>Over the past year there have been exceedances of the State Agricultural Standards for Boron, Cobalt, Manganese, Nickel, and Fluoride. The standards are in effect where groundwater may be used for irrigation of crops. No groundwater from the site is used for irrigation. Selenium exceedances have sporadically occurred and the operator will continue to evaluate the source with ongoing monitoring and the development of a site conceptual model. Exceedances have not occurred at the Point-of-Compliance well.</p>	<ul style="list-style-type: none"> ● The site was last inspected Nov. 10, 2020 ● No problems or violations related to water quality have been issued in the reporting period. ● By the end of Dec 2021 the operator had completed installation of six additional monitoring wells at the site, in accordance with TR-8. ● Monitoring during 2022 will be the first year with an expanded monitoring well network to develop a more robust site conceptual model. ● Mining is ongoing at the site with concurrent reclamation also being performed. ● The operation is currently in compliance with all applicable water quality standards .
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<p>LOVELAND READY-MIX CONCRETE, INC. (LRM) KNOX PIT (M-2017-036) LARIMER COUNTY (CM05)</p>	<p>The approved permit is for a construction materials mining operation with on-site processing of mined materials to include crushing, screening, washing and production of concrete products. LRM is proposing a closed surface water system intended to capture all stormwater produced on the site and that which currently runs onto the site. Stormwater will be directed toward the mine excavations and stormwater retention ponds.</p> <p>LRM has submitted a groundwater sampling and analysis plan. The Division required collection of baseline water quality data sufficient to characterize existing groundwater quality. The WQCC Basic Standards for Groundwater Regulation 41 table values were used to establish the analyte list and analytical detection limits of the monitoring plan. During the life of the operation, LRM will continue to monitor water quality and shall submit the results of water quality monitoring with their annual report. The Operator will install a clay liner to prevent groundwater from flowing into the reclaimed pit basins</p> <p>The operator has committed to monitoring water levels within 14 monitoring wells installed at the site and several adjacent neighbors wells during the life of the mine.</p>	<ul style="list-style-type: none"> ● LRM submitted their water quality and water level data with the annual report in January 2022. ● LRM received their County Special Use Permit on January 6, 2022 and resumed mine development. ● The site was inspected on May 5, 2022. No clay liners have been installed as of the inspection report.
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Colorado Coal Mines – Activity Status

December 2022

Colowyo Mine (Producing) – C-1981-019

Moffat and Rio Blanco Counties

Company Name: Colowyo Coal Company L.P.
Mine Name: Colowyo Coal Mine
Mine Type/Status: Surface/Federal/Active
FY 22-23 Production: 2,198,005 tons
No. Miners: 176
Permit Acres: 26,173.14 (3,481.67 federal surface and 21,778.47 federal coal)
Affected Acres: 6,870.30
Disturbed Acres: 5,358.20
Bond Amount: Required - \$166,735,251; Actual Held - \$130,000,000*

Mining operations began in 1976 with the East Pit, a multi-seam coal operation with eight coal seams. Extraction of coal from the East Pit was terminated in 2006, and currently the only ongoing operation in the East Pit is reclamation of the final cut, including backfilling and grading of the pit and highwall reduction. Coal extraction from the multi-seam West Pit, including highwall mining, concluded in 2015. In 2006, Colowyo expanded the permit boundary by approximately 6,000 acres to the west and south into the South Taylor/Lower Wilson area. Mining, including highwall mining, in the South Taylor Pit will continue until 2028. Permit Revision PR-04 approved mining in the new Collom Pit. The initial box cut for the Collom Pit was started in early 2019. Mining in the South Taylor Pit has almost been completed and approximately half of production is currently coming from Collom.

Coal from the Colowyo Mine is shipped to the Craig Station in Craig, Colorado. Its coal is used in Units 2 and 3. Tri-State Generation and Transmission announced that both units will be retired in 2028.

There are seven groundwater points of compliance for the Colowyo Mine. Four points of compliance are for the South Taylor, East, West and the Section 16 Pits and the remaining three are for the Collom Pit.

*The difference between the amount of bond required and the amount of bond held is due the Division's approval of Permit Revision PR-04. Colowyo currently has an incremental bond schedule in place. Prior to disturbing any surface, Colowyo will be required to submit the appropriate reclamation bond.

Deserado Mine (Producing) – C-1981-018

Moffat and Rio Blanco Counties

Company Name: Blue Mountain Energy, Inc.
Mine Name: Deserado Mine
Mine Type/Status: Underground/Federal/Active
FY 22-23 Production: 2,711,295 tons
No. Miners: 160
Permit Acres: 13,645.01 (13,325.01 federal surface and 13,645.01 federal coal)
Affected Acres: 8,216.71
Disturbed Acres: 651.71
Bond Amount: Required - \$6,533,708; Actual Held - \$6,600,000

The Deserado Mine is an underground longwall mine that is currently mining in the B-Seam. All coal mined from Deserado Mine is shipped by train directly to the Bonanza Power Plant located near Bonanza, Utah. The Bonanza Plant is scheduled to be retired in 2030. The Deserado Mine continually drills into their current longwall workings to allow nitrogen to be pumped into the mine as a fire preventative measure.

There is one groundwater point of compliance for the Deserado Mine. The POC is located down dip of the facilities area and coal refuse piles. It has been continually monitored since 2006.

Foidel Creek Mine (Producing) - C-1982-056

Routt County

Company Name: Twentymile Coal, LLC
 Mine Name: Foidel Creek Mine
 Mine Type/Status: Underground/Federal/ Active
 FY 22-23 Production: 1,739,111 tons
 No. Miners: 166
 Permit Acres: 22,647 (6,070 federal surface and 8,484.8 federal coal)
 Affected Acres: 19,996.33
 Disturbed Acres: 819.05
 Bond Amount: Required - \$10,943,632; Actual Held - \$10,939.851

The Foidel Creek Mine is an underground longwall mine located near Oak Creek, Colorado. Mining at the Foidel Creek Mine has historically occurred in the Wadge seam. During 2015 and 2016, the company ramped down to, and conducted development mining in, the Wolf Creek seam. Longwall mining in the Wadge seam ended in June 2016. Longwall mining in the Wolf Creek seam began in September 2016.

There are five groundwater points of compliance at the mine. Three of these POCs are alluvial wells and two are bedrock wells. All of these wells have data from long-term monitoring.

King Coal Mine (Producing) - C-1981-035

La Plata County

Company Name: GCC Energy, LLC
 Mine Name: King Coal Mine
 Mine Type/Status: Underground/Federal/ Active
 FY 22-23 Production: 466,410 tons
 No. Miners: 89
 Permit Acres: 3,102.90
 Affected Acres: 2,118.68
 Disturbed Acres: 54.17
 Bond Amount: Required - \$1,017,580; Actual Held - \$1,017,580

The King Coal Mine, permitted by GCC Energy, LLC (GCC), is an underground mine west of Durango in La Plata County. Mining at the original mine (King I) was completed in 2009 and those portals have been sealed. Expansion to the King II Mine was approved in 2006 and coal extraction began in 2007. The King II mine's surface facilities were constructed in 2008. Coal is mined from the A-Seam using conventional room-and-pillar methods.

There are currently no points of compliance at the King II Mine. In 2015 and 2016 the operator

drilled several well clusters to better characterize the groundwater. It is anticipated that one or more of these wells will become a POC or it will help locate a better location for a potential POC.

New Elk Mine (Producing) - C-1981-0012

Las Animas County

Company Name: New Elk Coal Company, LLC
Mine Name: New Elk Mine
Mine Type/Status: Underground/Private/Active
FY 22-23 Production: 167,380 tons
No. Miners: 87
Permit Acres: 4,213.60 (0.00 federal surface and 0.00 federal coal)
Affected Acres: 2,910.81
Disturbed Acres: 227.80
Bond Amount: Required - \$5,218,954; Actual Held - \$5,218,954

The New Elk Mine, located approximately 25 miles west of Trinidad, is an underground mine that restarted production in February, 2020. The mine produces high quality metallurgical coal for steel production. The coal is shipped by rail to the Port of Houston and exported to South American and Asian markets. New Elk has submitted Permit Revision 5 to increase the permit area by 2,856 acres and reorient the mine panels to optimize coal recovery.

There are no groundwater points of compliance at the New Elk. This status continues to be evaluated with ongoing permitting actions.

Trapper Mine (Producing) - C-1981-010

Moffat County

Company Name: Trapper Mining, Inc.
Mine Name: Trapper Mine
Mine Type/Status: Surface/Federal/Active
FY 22-23 Production: 1,525,192 tons
No. Miners: 93
Permit Acres: 11,156.69 (0.00 federal surface and 5,540.43 federal coal)
Affected Acres: 3,268.91
Disturbed Acres: 3,268.91
Bond Amount: Required - \$29,892,978;; Actual Held - \$45,100,000

The Trapper Mine, permitted by Trapper Mining, Inc., is a surface mine located south of Craig. Draglines, excavators, loaders and trucks are used to mine coal. Coal is trucked directly to the Craig Power Station Power Plant located adjacent to the mine site. In October 2016, Tri-State Generation and Transmission, the company that operates the Craig Power Plant, announced that Unit No.1, the oldest unit, would be retired by December 31, 2025.

There are two points of compliance (POC) for water quality at the Trapper Mine. One POC is a bedrock well and one POC is an alluvial well. DRMS conducts monthly inspections of the site. Other inspections include bond release inspections, occasional oversight inspections with OSM, and inspections for specific permitting actions. 36 sediment ponds capture runoff and are monitored on a monthly basis for constituents as per the NPDES permit in place.

Company Name: Mountain Coal Company, LLC
Mine Name: West Elk Mine
Mine Type/Status: Underground/Federal/ Active
FY 22-23 Production: 3,282,254 tons
No. Miners: 276
Permit Acres: 19,854.90 (13,358.40 federal surface and 15,395.00 federal coal)
Affected Acres: 16,086.85
Disturbed Acres: 556.62
Bond Amount: Required - \$11,267,389,; Actual Held - \$15,000,000.00

The West Elk Mine is an underground longwall mine that produces coal from the E-Seam. In 2018 the operator started development mining in a new southern lease area. The existing coal wash plant and refuse pile are expected to provide sufficient capacity for the remaining life of mine. The operator continues to construct and reclaim mine ventilation boreholes and their associated drill pads and light-use roads.

There are no groundwater points of compliance at the West Elk Mine. It has not been considered necessary to date due to the fact that groundwater resources are limited and discontinuous and the potential impacts to groundwater have been considered insignificant.

**Colorado Coal Mines
December 2022**

Permit #	Mine	Total Permitted Acreage	Inspections Required
	Active		
C-1980-007	West Elk Mine*	19,854.90	12
C-1981-010	Trapper Mine*	11,156.69	12
C-1981-012	New Elk Mine	4,213.60	12
C-1981-018	Deserado Mine*	13,645.01	12
C-1981-019	Colowyo Mine*	26,173.13	12
C-1981-022	Elk Creek Mine	15,676.51	12
C-1981-035	King Coal Mine*	3,102.90	12
C-1982-056	Foidel Creek*	22,647.00	12
C-1983-059	Terror Creek Load Out	20.00	12
	TOTAL ACTIVE	116,489.74	108
	Reclamation and Cessation		
C-1980-004	McClane Canyon Mine (Temporary Cessation)	3,561.40	4
C-1981-008	New Horizon Mine	345.56	12
C-1981-028	Keenesburg Mine	225.55	12
C-1981-038	Bowie No. 1	5,035.20	12
C-1981-041	Roadside Portals	317.00	12
C-1981-044	Williams Fork Mines	6,363.00	12
C-1982-057	Seneca IIW Mine	3,878.50	12
C-1992-081	H-G Loadout	391.20	12
C-1994-082	Yoast Mine	2,318.30	12
C-1996-083	Bowie No. 2 (Temporary Cessation)	10,987.40	4
C-1996-084	Lorencito Canyon Mine	384.00	12
C-2009-087	Peabody Sage Creek Mine	10,164.00	12
C-2010-089	New Horizon North Mine	234.60	12
	TOTAL RECLAMATION AND CESSATION	44,205.71	132
	Revoked		
C-1981-015	Fruita No. 1 & 2	16.00	4
C-1981-014	Southfield Mine	1.45	2
C-1981-033	Bear Mine	1,108.40	12
C-1981-037	GEC Strip Mine	890.00	2
	TOTAL REVOKED	2,015.85	20
	New		
C-2006-085	Northfield Mine (pending bond)	1,157.00	0
	TOTAL NEW	1,157.00	0
	Total	166,700.42	264
	* Actively Producing Mines		

**COLORADO ABANDONED MINE LAND PROGRAM
NONPOINT SOURCE AND WATER QUALITY IMPROVEMENT PROJECTS
December 2022**

SAN JUAN RIVER WATERSHED

Project and Summary	Status	Partners
<p>Ute Mountain Ute - Mancos River Watershed Studies</p> <p>Synoptic sampling planned for the West Mancos River, additional sampling of the East Mancos River and downstream sites on the Ute Mountain Ute tribal property on the Mancos River. A Final report will be complete in 2025.</p>	<p>Sampling is planned for summer of 2023, final reporting in 2025</p>	<p>MSI, Ute Mountain Ute, USFS, Mancos Conservation District, Southwest Hydrologic, Mesa Verde National Park, and EPA.</p>
<p>East Mancos Headwaters - USGS Doyle Group Study</p> <p>A cooperative project between DRMS, USGS, and EPA to determine the amount of loading from mine sources in the East Mancos headwaters. The project will help make reclamation decisions about the Doyle Group waste rock piles.</p>	<p>Sampling is planned for 2023, reporting in 2025</p>	<p>DRMS, USGS, USFS, EPA, MSI</p>
<p>Thunder Mine - East Mancos River Watershed</p> <p>Ute Mountain Ute, Mancos Conservation District, United States Forest Service, Mountain Studies Institute, Mesa Verde National Park, Environmental Protection Agency, and Division of Reclamation, Mining and Safety have proposed a project to the Water Improvements and Infrastructure Act for the Nation (WIIN Act) Board for funding Thunder Mine Reclamation and continued metals monitoring in the Mancos River watershed.</p>	<p>WIIN Act Funding awarded to Ute Mountain Utes, working on a contract between DRMS and Ute Mountain Ute. Design phase 2023, Construction after contract agreed between UMU and DRMS</p> <p>Some water sampling happened in 2022 for pre Thunder remediation data.</p>	<p>Ute Mountain Ute, USFS, WIIN Act, Mancos Conservation District, MSI, Mesa Verde National Park, and EPA.</p>
<p>Bonita Peak Mining District</p> <p>The Bonita Peak Mining District (BPMD) was designated as a Superfund site by EPA following the 2015 Gold King event and renewed focus on impacts by “legacy” mines</p>	<p>Monitoring, Analysis, Design and Technical Assistance - Ongoing.</p> <p>Goals 2 & 3 field surveys completed in 2021,</p>	<p>DRMS, BLM, USFS, EPA, CDPHE, ARSG, MSI, USGS</p>

<p>to the Animas River. DRMS is currently providing technical assistance to BLM, USFS, EPA, CDPHE and other partners within the BPMD. DRMS has been given funding by BLM, USFS, CDPHE, and EPA to provide technical assistance, reclamation project design, and potential implementation of reclamation projects on Private, BLM and USFS managed mine sites. DRMS is involved in the Hydrogeologic Workgroup, Characterization Workgroup, coordinating cultural clearances, collecting mine map information, facilitating safe entry into underground mines, and utilizing the legacy site knowledge to help inform the superfund partners. DRMS anticipates continued CDPHE funding to provide technical assistance, design and implementation of additional mine reclamation projects within the BPMD.</p>	<p>reporting completed in 2022.</p> <p>Campground 7 completed in 2021</p> <p>Campground 4 completed in 2022</p> <p>Vermillion, Columbus, Mountain Queen planned for IROD construction in 2023.</p> <p>Grand Mogul work planned for 2024.</p> <p>Preliminary Bulkhead Assessments have not occurred yet.</p> <p>Bulkhead Inspections completed in 2022.</p> <p>Redcloud Safety Closures and Hydrologic Controls Project Construction - 2023</p> <p>Mineral Creek Gauge Stations - 2022 to 2023 - continuous stream flow data for USFS.</p> <p>SJCHS Map Scanning Grant - to scan important maps for mines - ongoing</p>	
<p>Bullion King - AML BMP Site</p> <p>DRMS was awarded a 319 grant to assess the effectiveness of different reclamation BMP's at sites across the State of Colorado. The Bullion King was selected as one of the sites to study. The project includes sampling and analysis of the Bullion King Mine site and Porphyry Gulch during high and low flow in 2022 to determine the effectiveness of the Bullion King waste rock reclamation project.</p>	<p>Sampling completed in 2022</p> <p>Reporting will be complete by 9/30/23</p>	<p>DRMS, TU, MSI, CPDHE, EPA</p>

<p>The project dovetails with a project that CDPHE commissioned to determine the effectiveness of reclamation through the sampling of aquatic macroinvertebrates with Mountain Studies Institute.</p>		
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LOWER COLORADO RIVER WATERSHED

Project and Summary	Status	Partners
<p>Governor Basin Project, Uncompahgre Watershed</p> <p>DRMS staff providing technical assistance for a project utilizing CDPHE Idarado Natural Resource Damage Funds in assistance with Ouray Silver Mines and Uncompahgre Watershed Partnership (UWP) to cap and cover acidic and oxidized waste rock with buffered non-oxidized waste rock in Governor Basin. Provide runoff/runoff controls and revegetation. Trout Unlimited (TU) is also assisting with the design and EPA is considering implementation using a Time-Critical removal action. TU awarded contract to Reams Construction for project implementation. Ouray Silver Mines in receivership, project implementation status unknown.</p>	<p>Design - Ongoing, Construction - potential for 2023</p>	<p>USFS, Ouray Silver Mines, Alpine Environmental Consultants, GeoSyntec, Trout Unlimited, DRMS, EPA</p>
<p>Carbonero Mine, Howards Fork/San Miguel River Watershed</p> <p>Ongoing water quality monitoring assistance with San Miguel Watershed Coalition to determine legacy mining impacts in the Howard Fork of the San Miguel River.</p> <p>2023(?) Planned maintenance of Carbonero Mine closure and shed entry to prevent flow restrictions and facilitate future cleanout. USFS planning cadastral survey to verify land status in 2022.</p>	<p>Monitoring and Analysis - Ongoing</p>	<p>DRMS, EPA, CDPHE, USFS, San Miguel Watershed Coalition, Town of Ophir</p>

<p>Prayer 9 Waste Rock Pile, La Sal Creek, Dolores River Watershed</p> <p>The Prayer 9 uranium mine site is located in Montrose County at the top of a cliff overlooking La Sal Creek. During heavy storm events in 2017 a significant amount of the waste rock pile was washed down the cliff and deposited in an actively used irrigation diversion and pasture. The Program was contacted by the landowner requesting assistance to address the problem. A reclamation project was completed in 2018-2019 in which mine waste was removed from the irrigation diversion and pasture to an onsite consolidation area and revegetated. Prayer 9 Waste Rock regrade project completed fall of 2021 by Reams Construction in partnership/funding from DOE DRUM program, UMETCO and BLM. Runon/off ditches and erosion control benches were constructed and the entire site hydromulch/seeded.</p>	<p>Prayer 9 Waste Rock regrade project completed fall of 2021 by Reams Construction</p> <p>Monitoring - fall of 2022 site held up during heavy monsoon season, revegetation looking good</p>	<p>DRMS, CDPHE, UMETCO, BLM, DOE</p>
<p>Centennial/Suncup Maintenance, Dolores River Watershed</p> <p>The inactive Centennial and Sun Cup Uranium Mines are located on U. S. Bureau of Land Management (BLM) managed lands in Disappointment Valley, seven miles east of the town of Slick Rock in western San Miguel County. The waste rock piles are located in or adjacent to drainages. Erosion of the waste rock was transporting selenium bearing and radioactive materials downstream. In 2016, the Program in cooperation with numerous partners relocated and consolidated a significant amount of waste rock, and worked to stabilize slopes through regrading and revegetation. Maintenance projects conducted in 2019 and 2020 included additional revegetation and sediment control.</p>	<p>Ongoing Maintenance and Monitoring</p>	<p>DRMS, CDPHE, BLM</p>

<p>Matterhorn Mill Repository, Lake Fork/San Miguel River Watershed</p> <p>The historic Matterhorn Mill located near San Bernardo in San Miguel County Colorado was structurally stabilized and mill wastes removed in 2019. The mill was the site of an on-site tailings impoundment. The lower settling pond located on San Miguel County property and areas adjacent to the tailings impoundment were excavated and approximately 5,000 cubic yards were placed on the footprint of the existing impoundment and a 3-layer impervious liner was placed over the repository. A runoff control diversion ditch was constructed around the impoundment to prevent surface water from eroding the repository. The penstock from Trout Lake for the historic Ames hydropower plant owned by Xcel Energy is located above the repository. A two foot soil cap was placed on the liner and the entire site was hydromulched/seeded. The project was completed with funding from the U.S. Forest Service Grand Mesa, Uncompahgre, Gunnison (GMUG) office, Norwood District in cooperation with San Miguel County.</p> <p>The U.S. EPA redelegate the Agency's cleanup response and enforcement authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to the U.S. Department of Agriculture (USDA) at the Matterhorn Mill site in San Miguel County, Colorado. Site work in 2022 included wetlands restoration and decommissioning/ revegetation of repository access road.</p>	<p>Repository constructed in 2021 by McCollum's Excavating.</p> <p>Wetlands restoration work completed in 2022. Additional planting scheduled 2023</p> <p>Monitoring, additional onsite work - ongoing</p>	<p>DRMS, USFS, EPA, San Miguel County, Xcel Energy</p>
<p>Irene Mine - Red Mtn. Creek/Uncompahgre River</p> <p>DRMS in partnership with the Forest Service completed the Irene Waste Rock Consolidation Project. The project consisted of consolidation of three waste rock piles into an onsite geomembrane lined repository. The repository was capped with rock and all</p>	<p>Construction completed in 2022</p>	<p>DRMS, USFS</p>

<p>excavated areas were topsoil and revegetated.</p>		
<p>New Dominion - Howards Fork/San Miguel River</p> <p>Grand Mesa, Uncompahgre, Gunnison, Norwood District, Forest Service completed EECA for non-time critical removal action September 2020. (previous site assessment 2006/draft time critical action memo 2018). Two draining adits approx. 150 gpm flow into a previous tailings impoundment that is now a beaver pond. Flow crosses Ophir Pass Road (San Miguel County R&B) and is a mixed ownership site with the Town of Ophir. TU working on preliminary design to create hydrologic controls/improvements for mine drainage. Currently discharges into a series of wetlands down gradient from site.</p>	<p>EECA completed September 2020. Preliminary design expected completed spring 2023.</p> <p>Meeting with Town of Ophir February 13.</p>	<p>FS,TU,DRMS(?), Town of Ophir, San Miguel County</p>
<p>Daisy Mine, Slate River/Gunnison River Watershed</p> <p>The Daisy mine is the largest anthropogenic source of metals loading into Redwell Creek, Oh Be Joyful Creek, and the Slate River. High levels of Pb, Zn, As, Cu, and Cd run-off the waste rock area and contaminate the receiving streams. Low pH conditions within the waste rock dumps and draining adit facilitates the transport of metals from the site. 2019 site work included exploratory drilling to identify the presence or absence of impounded water behind the collapsed (draining) portal. The drilling was completed in October 2019, and identified approximately 4' of impounded water behind the portal collapse. One pressure transducer was installed within the well to monitor pool elevation.</p> <p>2020 data download revealed a steady 4' of water impounded behind the collapse. Seasonal fluctuations were minimal.</p> <p>2021 work included a visit with EPA and DRMS to discuss possible 2022 reclamation.</p>	<p>Monitoring and Analysis - Ongoing</p>	<p>DRMS, CDPHE, FMI</p>

<p>EPA flew the site to assess aerial extent, road conditions, and repairs necessary for mobilizing equipment to the site..</p>		
<p>Standard Mine Superfund Site, Coal Creek/Gunnison River Watershed</p> <p>DRMS has been providing technical assistance to CDPHE, EPA, and their contractor with respect to implementation of the Record of Decision for the Standard Superfund site. DRMS involvement included review of design documents, quality assurance with respect to construction of various remedies, and input on O&M items. DRMS continues to provide yearly monitoring for CDPHE and EPA.</p>	<p>Monitoring and Analysis - Ongoing</p> <p>Maintenance planned for 2023</p>	<p>CDPHE, EPA</p>
<p>Standard Mine Level 98 and 5, Coal Creek/Gunnison River Watershed</p> <p>DRMS has partnered with USFS for Level 5 and Level 98 work at the Standard Mine. These levels were not included in the Standard Mine Superfund Project. Work includes diversion of Level 5 drainage, trench closure, waste consolidation, and wetland restoration at Level 98, and revegetation at both Level 5 and 98.</p> <p>The large drainage at Level 98 had erosion issues. Maintenance was completed to repair damage, and additional seeding was completed in fall 2020.</p> <p>Monitoring completed in 2021, additional maintenance scheduled for 2022.</p>	<p>Monitoring and Analysis- Ongoing</p> <p>Maintenance planned for 2023</p>	<p>DRMS USFS</p>
<p>Mt. Emmons Mine, Coal Creek/Gunnison River Watershed</p> <p>DRMS is providing reclamation design and implementation of mine waste reclamation on Freeport owned property at the Mt. Emmons site. DRMS working under an agreement with Freeport McMoran to implement reclamation activities. 2019 work included closure of the 2160 Ore Pass, grading and revegetation at 2000 Level,</p>	<p>Construction completed 2018, 2019, 2020, 2021, 2022.</p> <p>Construction completed in fall 2022.</p>	<p>DRMS, FMI, TU</p>

<p>drainage work at 2000 and 2160, water bar installation at Standard Mine road turn, and maintenance at 1370. Construction was completed in 2019 by Trout Unlimited with DRMS providing oversight on the ore pass closure.</p> <p>2020 work included supporting TU reclamation efforts below the 2160 tailings impounds, development of revegetation test plots, and design and implementation of the 1920 level portal closure.</p> <p>2021 work included installation of a finger drain system on Dam 3 to effectively drain standing water and near surface groundwater from the surface of the Dam and divert the water into the existing decant system. Additional work included an adit closure above the 1370 level, in-situ revegetation between Dam 1 and 2 and along the toe of Dam 4. Cut/fill/grade operations will resume in spring 2022 for Dams 1, 2, and 4. TU completed several surface water diversions, and will complete the work in spring/summer 2022.</p>		
<p>Hough Mine and Palmetto Gulch - AML BMP</p> <p>DRMS was awarded a 319 grant to assess the effectiveness of different reclamation BMP's at sites across the State of Colorado. The Hough Mine was selected as one of the sites to study. The project includes high and low flow water quality sampling in 2022 and data analysis in 2023.</p>	<p>Sampling completed in 2022</p> <p>Reporting will be complete by 9/30/23</p>	<p>DRMS, TU, MSI,CDPHE, and EPA</p>

UPPER COLORADO RIVER

Project and Summary	Status	Partners
<p>Peru Creek/Snake River Watershed</p> <p>DRMS continues to provide in-kind technical assistance to the various agencies and groups investigating impacts to Peru Creek and the Snake River from the Pennsylvania Mine and other Legacy sites within the watershed.</p>	<p>Monitoring and Analysis - Ongoing</p>	<p>DRMS, EPA, CDPHE, USFS, USGS, Summit County Open Space</p>
<p>Pennsylvania Mine, Peru Creek/Snake River Watershed + AML BMP</p> <p>Following completion of bulkheads on both Level F and Level C of the Pennsylvania Mine, DRMS has provided monitoring of mine pool conditions and assisted with water sampling. Efforts are ongoing to determine the long term effectiveness of the installed bulkheads.</p> <p>DRMS was awarded a 319 grant to study the effectiveness of reclamation at sites across the state. The project includes high and low flow sampling above and below the Penn Mine to determine the effectiveness of reclamation at the site.</p>	<p>Monitoring and Analysis - Ongoing</p> <p>Sampling completed in 2022</p> <p>Reporting will be completed in 2023</p>	<p>DRMS, TU, EPA, CDPHE, USFS, USGS, Summit County Open Space</p>
<p>Saints John Mine, Snake River Watershed + AML BMP</p> <p>DRMS continues to monitor flow through a flume that was installed in 2019. Water quality results associated with sampling in 2020 have been delayed.</p> <p>DRMS was awarded a 319 grant to study the effectiveness of reclamation at sites across the state. The project includes high and low flow sampling above and below the Sts. John reclamation site to determine the effectiveness of reclamation at the site.</p>	<p>Monitoring - Ongoing (flow only)</p> <p>Data Analysis, Metal Load Evaluation - Pending</p> <p>Sampling completed in 2022</p> <p>Reporting in 2023</p>	<p>DRMS, EPA, USGS, TU, CDPHE</p>

<p>Willard tunnel, Puzzle/Ouray mine, Germania mine, Blue River Watershed</p> <p>The CDPHE, EPA, USFS, USGS, USFWS, DRMS and Trout Unlimited (TU) have been investigating abandoned mine impacts to water quality in Illinois Gulch, a tributary to the Blue River, since 2012. These investigations have proceeded in consultation with local landowners, Summit County, and the Town of Breckenridge. DRMS and EPA conducted a comprehensive flow monitoring campaign at four locations near the Willard tunnel and the Germania mine beginning in the autumn of 2018, through the winter of 2018/19 and concluding in November 2019. During 2020, the DRMS assembled the data into detailed spreadsheets that were provided to EPA. Targeted reclamation in the area commenced in 2021.</p>	<p>Construction - 2021</p> <p>EPA completed as needed O&M on cap and drainage. Conducting lab scale development for water treatment system.</p>	<p>EPA, TU, DRMS, CDPHE, USGS, USFS, USFWS</p>
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SOUTH PLATTE RIVER WATERSHED

Project	Status	Partners
<p>Emmett/Yellow Girl, James Creek/Boulder Creek Watershed</p> <p>DRMS is working with EPA and TU to evaluate loading to James Creek in the vicinity of Jamestown. The Emmet and Yellow Girl mine sites have been identified as metal loading sources, so more refined data collection and analysis is ongoing. Conceptual reclamation projects are also being developed for each of the sites. In 2020, Yellowgirl reclamation included a combination of PUF and backfilling the shaft, grading the steep slopes, revegetation and tree planting on the terraces. Hydroseeding was completed in the Spring of 2021.</p>	<p>Data Collection and Analysis - Ongoing</p> <p>Construction on Yellowgirl completed 2021</p>	<p>DRMS, EPA, TU, Boulder County</p>

<p>Captain Jack Superfund Site, Lefthand Creek, Boulder County</p> <p>DRMS in conjunction with CDPHE conducted rehabilitation of the existing ground support and the addition of new ground support measures within the Big 5 Tunnel on the Captain Jack Mill Site. Construction began on May 10, 2021.</p> <p>Work included the installation of C-channel lagging throughout the existing steel sets (Sta. 03+60 to 04+52) and the installation of cavity filling foam in the annular space between the top of the steel sets and the tunnel crown. Welded wire mesh and steel mine straps were also installed as needed throughout the tunnel to secure potential wedges, blocks and slabs along the tunnel crown and sidewalls particularly between Stations 05+60 and 06+15 just in-by of the Bulkhead. Rotten and loose wood lagging in the entry portal shed was replaced and cavity filling foam installed in the annular space between the portal shed and the tunnel crown and sidewalls. Two sections of safety fencing were erected to block access to a collapsed portion of the tunnel.</p>	<p>Construction Completed 2021</p>	<p>EPA, CDPHE</p>
<p>Perigo mine, Gamble Gulch, Gilpin County</p> <p>DRMS is contracting with USGS to investigate groundwater movement around Perigo Mine crosscut to determine viability of bulkhead installation.</p>	<p>Monitoring Well Installation, sampling and analysis</p>	<p>DRMS, EPA, CDPHE, USFS, USGS</p>

ARKANSAS RIVER WATERSHED

Project and Summary	Status	Partners
<p>Chalk Creek / Mary Murphy Mine, Golf Tunnel Hydrologic-Bulkhead, Arkansas River Watershed</p> <p>DRMS continues to coordinate with the USFS and EPA in addition to other stakeholders regarding ongoing monitoring and long term data collection within Chalk Creek. Future work within Chalk Creek may entail construction of a hydrologic bulkhead seal on the 1400 Level of the Mary Murphy to address discharge associated with the Golf Tunnel mine pool. In 2020, flumes were permanently installed in the Golf & 1400 Level portals to continuously measure and record discharge rates at both locations. Data collected will be used to inform future actions.</p>	<p>Monitoring - Ongoing</p>	<p>DRMS, EPA, CDPHE, USFS</p>
<p>Sherman Mine Waste Pile Stabilization, Arkansas River Watershed</p> <p>The Sherman Mine is located at the base of Mount Sherman in Lake County. The waste pile is composed mostly of fine-grained dolomitic rock that is prone to severe erosion during spring runoff and storm events. In 2016, DRMS contracted a third-party consultant to conduct a hydrologic analysis of the site and to design engineering controls to stabilize the waste pile and reduce erosion and sediment transport. Construction of grouted riprap channels and other surface water control structures is planned for the near future (pending funding).</p>	<p>Construction planned for 2023 was postponed due to funding limitations.</p>	<p>DRMS, BLM, FMI</p>
<p>Little Frying Pan - AML BMP</p> <p>DRMS was awarded a 319 grant to study the effectiveness of reclamation at sites across the state. The project includes high and low flow sampling above and below the Tiger & Venture Mines to determine the effectiveness of reclamation at the site.</p>	<p>Sampling completed in 2022 Reporting in 2023</p>	<p>DRMS, TU, CDPHE, and EPA</p>

RIO GRANDE RIVER WATERSHED

Project	Status	Partners
<p>Nelson Tunnel Source Controls Remedial Investigation and Feasibility Study (RIFS), West Willow Creek- CDPHE, EPA, DRMS: The EPA, CDPHE and DRMS continue to investigate the feasibility of implementing source control measures at the Nelson Tunnel, Creede, Colorado. During this process, DRMS continues to provide technical assistance pertaining to RIFS documents and underground related information.</p> <p>Future tasks for DRMS may involve facilitation of additional underground investigations, review and analysis of existing data, development of additional cost analysis for installation of multiple bulkheads, facilitation and cooperation with potential sampling well installations, and development of potential source control remedies.</p>	<p>Ongoing</p>	<p>DRMS, EPA, CDPHE, USFS</p>

selection at mine sites. The project is being completed cooperatively with Trout Unlimited.		
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