

Lisbon Valley Mining District - Columbia Shaft (B818)

ERRS Operations Plan and Work Order

Operational Period 14: January 16 2022 – January 22, 2023

Open and honest team discussions that involve **EVERYONE** are critical to understanding hazards, mitigating risks, preventing accidents, and ensuring a successful response.

Top Priority is Site Safety and Security

- Always watch out and protect yourself and the people around you from physical hazards and exposure to radioactive dust.
- Prevent contamination from spreading beyond footprints of waste piles.
- Conduct daily safety checks on equipment and general site conditions.
- Remove, mark or remedy hazards when you see them. Notify crew of all hazards.

Emergency Contacts:

- San Juan County Sheriff Dispatch - 435-587-2237 (911 if it is an emergency).
- San Juan County Fire Department - 435-587-3225 (911 if it is an emergency).
- Moab Regional Hospital - 435-719-3500 (450 Williams Way, Moab, Utah 84532)

Site Objectives

1. Regrade the waste pile and install erosion control features.
2. Restrict camping and access to the waste pile.

Deliverables

Operations Periods are Mondays-Sundays. OSC will issue weekly Work Orders before the beginning of each Operations Period to include authorized activities and resources.

- ER will conduct pre and post UAV flights that provide site topography and 30-second videos for public information.
- ER will deliver daily photos documenting progress and Site conditions to mccomb.martin@epa.gov.
- ER shall provide a Progress Report at the end of each Operations Period including:
 - summary of activities accomplished.
 - deviations from the authorized activities and resources.
 - summary of equipment/personnel utilized. The equipment utilization summary should include equipment that is working/available for use on each day.
- ER shall submit a 1900-55 RCMS Report at the end of each Operations Period.

Authorized Activities

- Drainage will be established from the bottom tier to the toe of the waste pile and may be armored in discrete locations with rock generated on-site.
- The waste rock pile and the waste rock repository will be graded to drain to the drainage channel.
- The waste pile will be regraded at a 3:1 slope, if possible, depending on the amount of waste excavated. At least 5 slope breaks that drain to the drainage ditch will be built into the slope, where feasible.
- Excavated waste rock will be transported to the top waste rock repository pile and against the rock face that was quarried when the mine was developed. ERRS will use a bulldozer to grade and compact the material against the rock face.
- The remaining waste material from the slope adjacent to the waste rock pile to the east along the access road will be removed and placed in the repository.

- ERRS will make efforts to preserve the vegetation at the toe of the slope, with special consideration to minimize the disturbance to the drainage channel along the road.
- The stockpiled topsoil will be spread over the disturbed area. Other revegetation efforts (i.e., hydroseeding) may be considered.
- The access road to the top of the waste rock pile will be closed with large boulders, ditches, and berms.
- Signage will be installed at the site as directed by EPA.
- All waste with potential radiation contamination will be buried in the waste pile and disposed of on-site.
- Final grading and clean-up tasks will be performed.
- Heavy equipment will be decontaminated prior to being removed from the site.
- The crew and all site materials/equipment will be demobilized from the site.

Goals/Schedule

Work Day #	Date	Goals	Status
Day 1 & 2	11/21/2022, 11/28/22	Mobilization and site set-up	Complete
Day 3 - 15	11/29/22 -12/13/22	Excavate out the top bench	Complete
Day 4	11/30/22	Cover/close adit	Complete
Day 16 - 24	12/14/22 – 12/22/22	Excavate out the second bench	Complete
Day 25	12/23/22	Demobe for Holiday Break	Complete
Day 26	1/2/23	Remobe for Holiday Break	Complete
Day 27 & 28	1/3/23 - 1/4/23	Clean up grades on first two tiers	Complete
Day 29 - 36	1/5/23 – 1/14/23	Excavate out third bench	Complete
Day 31	1/7/22	Complete drainage channel installation	Complete
Day 37 - 40	1/16/23 – 1/19/23	Excavate out the final bench	Complete
Day 39	1/18/22	Complete adjacent slope excavation	
Day 41	1/20/23	Complete grading of the slope; block road	
Day 42	1/21/23	Decon machines; clean-up site	
Day 43	1/22/2023	Demobilization	

Seeding, hydro-mulch installation, UAV flight, and repairs will be conducted in the Spring.

Authorized Resources

PERSONNEL	QUANTITY	COMMENTS
Response Manager	1	
Equipment Operator	2	
Truck Driver	1	May be used as Equipment Operator as necessary.
Laborer	1	May be used as Equipment Operator as necessary.
Field Accountant	1	
EQUIPMENT	QUANTITY	COMMENTS
Truck, P/U	3	Includes transportation costs. Track as pending costs through January 22nd and draw down as appropriate.
Decontamination Trailer	1	
Pressure Washer Trailer	1	
Generator	1	Water truck and pump are currently no on site, but may be needed for the decontamination of the equipment.
3" Water Pump	1	
Water Truck	1	

Excavator w/bucket	2	
Bulldozer	1	
Off-road haul truck	1	
Loader	1	
Fuel Tank	1	
Skidsteer	1	
Laser level	1	
Hoe Ram Attachment	1	

Health and Safety Monitoring

- Decontamination activities will be tested with the Ludlum device to determine level of radioactive dust in coveralls, boots, street clothes, respirator cartridges, etc.
- Dust levels in the air will be monitored with Dust Trackers provided by EPA. Location will be determined on-site and will likely include the area around the comms trailer and the area outside the decontamination area.

Approvals:

M McCal 1/13/23
EPA On Scene Coordinator

[Signature] 1/13/23
ERRS Response Manager