

Silver Dyke Adit and Drainage Site

ERRS Operations Plan

Work Order for Ops Period 09

September 11-17, 2023

Site Website: https://response.epa.gov/site/site_profile.aspx?site_id=16089

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

Site Safety and Security is the Top Priority

- Always watch out for yourself and the coworkers/public around you.
- Always protect yourself, coworkers and public from exposure to contaminants.
- Prevent contamination from spreading beyond work area.
- Discuss site conditions daily.
- Conduct daily safety checks on equipment and general site conditions.
- Remove, mark or remedy hazards when you see them. Notify OSC/RM of all hazards.

Site Objectives and Schedule

Silver Dyke Emergency Response Schedule - Updated 9/11/2023		1	2	3	4	5	6	7	8	9	10	11
		Jul 13-23	Jul 24-30	Jul 31-Aug 6	Aug 7-13	Aug 14-20	Aug 21-27	Aug 28-Sep 3	Sep 4-10	Sep 11-17	Sep 18-24	Sep 25-Oct 1
Objective 1: Improve water management and erosion control.												
a. Divert water away from the drainage above the adit.	Complete											
b. Stabilize the slope above the adit to support construction.	Complete											
c. Complete stabilization of the slope above the adit.	Complete											
d. Upgrade the bridge/water crossing at Carpenter Creek.	In-Progress											
e. Restore disturbed areas.	Not Started											
f. Repair the toe of the two large fluvial tailings ponds.	Not Started											
Objective 2: Open and stabilize the Silver Dyke Adit.												
a. Prep the "Glory Hole" to receive waste.	Complete											
b. Remove waste rock from below the adit to the Glory Hole.	Complete											
c. Construct containment ponds below the adit.	In-Progress											
d. Provide a stable flow channel for the adit drainage.	Complete											
e. Conduct geophysical surveys.	Complete											
f. Prep drill site above the adit.	Complete											
g. Drill into and drain the adit.	In-Progress											
h. Remove material blocking the adit to the Glory Hole.	Not Started											
i. Install structure to keep the adit open.	Not Started											
j. Remove containment ponds.	Not Started											

Site Tasking and Progress Reports

OSC will establish Operational Periods and provide authorized activities and resources. At the end of each Operations Period, ERRS will generate a summary of activities accomplished, deviations from the authorized activities and resources, and an inventory of equipment/personnel utilized each day. The equipment utilization inventory must include an indication of equipment that is working/available for use each day.

Activities Authorized/Anticipated by OSC for Ops Period #9

1. Upgrade the bridge/water crossing at Carpenter Creek.
 - a. Establish temporary crossing.
 - b. Relocate phone line.
 - c. Remove old bridge and install new culvert crossing.
2. Construct containment ponds below the adit.
 - a. Complete improvements to lower pond.
 - b. Install liner along berm of the pond.
3. Drill into and drain the adit.
 - a. Review EPA Fluid Hazard Analysis.
 - b. Support START drill team.
 - c. Once well has been constructed and explored, begin 24hr pumping operation.
 - d. Under specific direction of OSC, run camera up adit drain pipe. Record video and do not disturb any blockages that are encountered. Identify location of any bends in the pipe if they exist.
 - e. Under specific direction of OSC, pump water in mine workings from the drill hole until the water level is less than 3 feet.
 - f. Under specific direction of OSC and after water level at drill hole is less than 3 feet, open and drain the adit from the top down.
 - g. Under specific direction of OSC, use caustic to raise the ph of the water being drained from the mine workings to drop heavy metals in solution. START will collect ph information to guide the process.
4. Other Site management tasks.
 - a. Continue road improvement and erosion control work.
 - b. Continue to harvest rock for use on drainage controls.

Personnel Authorized by OSC

Resource	#	Notes
Program Manager	1	Off-site, part time as needed
Safety Officer	1	Off-site, part time as needed
Response Manager	1	
Field Cost Admin	1	
Equipment Operator	4	
Laborers	2	May be billed as Operators as needed.

Major Equipment Authorized by OSC

Resource	#	Notes
Excavator w/ thumb	2	
Front End Loader	1	
Skid Steer	1	
Dozer	1	
Haul Truck	1	
Porta-Potties	4	
Generator	1	
Pick-up Trucks	2	
Stake Bed Truck	2	
Fuel Storage Tank	1	
SUV	1	
Storage Trailer	1	

Signatures

EPA On Scene Coordinator

ERRS Response Manager