

**United States Environmental Protection Agency
Region IX
POLLUTION REPORT**

Date: Tuesday, February 1, 2011

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Subject: Final POLREP
Yerington Anaconda Mine
102 Burch Dr., Yerington, NV
Latitude: 38.9988000
Longitude: -119.1911000

POLREP No.:	3	Site #:	09GURV08
Reporting Period:		D.O. #:	
Start Date:	9/8/2008	Response Authority:	CERCLA
Mob Date:	9/8/2008	Response Type:	Time-Critical
Demob Date:	5/27/2010	NPL Status:	Non NPL
Completion Date:	5/27/2010	Incident Category:	Removal Action
CERCLIS ID #:		Contract #	EP-W-07-022
RCRIS ID #:			

Site Description

The Yerington/Anaconda Mine Site is an abandoned copper mining, milling, and processing facility. It covers 3,468 acres and is located two miles north of Yerington, Nevada.

The Anaconda Copper Company operated the mine from 1952 to 1978 as a low-grade copper mine and milling operation. During this period, a total of 350 million tons of ore and waste rock were mined from the Yerington Pit, and 189 tons of waste was generated.

In 1977 the Atlantic Richfield Company acquired Anaconda and assumed its operations at the Site. In June 1978, Atlantic Richfield terminated operations at the Site. In or about 1982, Atlantic Richfield sold its interests in the private lands within the Site to Don Tibbals, a local resident, who subsequently sold his interests with the exception of the Weed Heights community to Arimetco, Inc., the current owner. Arimetco operated a copper recovery operation from existing ore heaps within the Site from 1989 to November 1999. Arimetco has terminated operations at the Site and is currently managed under the protection of the United States Bankruptcy Court in Tucson, Arizona.

The site consists of an office/process facility, an open-pit mine, an overburden dump, sulfide and oxide stockpile dumps, leach pads, tailings and waste rock piles, and evaporation ponds. Naturally occurring radioactive materials including uranium, thorium, and radium, are present at the site and have become concentrated in some areas due to mining processes.

To date, EPA has conducted five separate removal actions at the site. An initial removal action was conducted at the site in February 2006. This removal action consisted of two phases of work. The first phase involved the removal of approximately 120 PCB-containing transformers. All transformers at the site were sampled for PCBs. Those transformers found to have greater than 50 ppm were removed and transported to the Clean Harbors facility in Coffeerville, KS for disposal. The second phase of this removal action involved addressing fugitive dust at the site. This work, which was conducted from April 5 to May 12, 2006, primarily involved placing a soil cap over approximately 75 acres of exposed sulfide tailings. The cap was constructed using onsite materials, referred to as vat leach tailings. During the capping work, the EPA Environmental Response Team (ERT) conducted air monitoring and sampling. Results of this monitoring and sampling effort indicated that airborne concentrations of metals and radioactive isotopes were either at non-detectable levels or were below levels that would cause health concerns. EPA also applied a soil sealant to other areas of the site, approximately 20 acres, that could possibly be contributing to fugitive dust.

EPA conducted a second removal action at the site from August to October 2006. This removal action addressed fluids management problems associated with the Arimetco heap leach system. These problems included insufficient fluids storage capacity and leaking pond liners. EPA conducted the following activities: construction of a 4-acre evaporation pond, construction of an 1,100 foot french drain intended to capture heap draindown before it enters the Megapond, and relining of Slot Pond #2.

EPA conducted a third removal action at the site in October 2007. This removal action addressed the Bathtub Pond of the fluids management system. The liner for this pond had been torn badly by windstorms during the spring and summer of 2007, and heap leach fluids were being released directly to the subsurface. EPA removed the sediments and liner from the pond, backfilled and compacted the pond area, and installed a french drain to collect the heap leach fluids draining down from the adjacent heap.

In August 2007, EPA also conducted two separate removal assessments. One was a radiological assessment of the Process Area and one was a subsurface assessment of the heap leach ponds.

EPA completed a fourth removal action at the site in September 2008. The goal of this removal action was to complete stabilization of the Arimetco heap leach fluids management system. This project included closure of the following heap leach ponds: South Slot Pond, Plant Feed Pond, Old Raffinate Pond, New Raffinate Pond and the Megapond. Pond closure consists of removing sediment from the pond, removing the liner, and in some cases backfilling the pond. In the case of the the Old Raffinate Pond, kerosene contaminated soils exist beneath the pond to a depth of more than 20 feet. These contaminated soils will be excavated and bioremediated onsite. Bioremediation of these kerosene contaminated soils was completed in June 2010. EPA also relined the Phase I/II Pond and repair the VLT Pond, as both of these ponds were still needed to capture heap leach draindown fluids. EPA will also implemented measures to reduce bird mortalities associated with these ponds, including installation of propane bird-scare cannons.

EPA conducted a fifth removal action at the site from May to July 2010. This removal action included removal of asbestos from the Anaconda Mine office, offsite disposal of the asbestos containing material, demolition of the mine office, onsite landfilling of the demolition debris; removal, radiological screening and offsite disposal of more than 300 large truck tires; conducting a repairs to the heap leach fluids management system; performance of an evaporation pilot test; and removal of small containers of hazardous waste left onsite.

Current Activities

11/11-11/16.

ARC contractors, including USA Environmental, Desert Engineering, LVI and Brown and Caldwell continued operations on all three removal actions. EPA and START contractor were onsite to conduct oversight of the removal work. Fugitive dust monitoring was performed by ARC contractors.

Rad Removal - Began excavation of 17 areas identified within the Work Plan, to depth of 3 feet. By the end of this period, these excavations were nearly complete. Material from these excavations was taken to the dump leach surge pond (DLSP) for loading. Conducted excavation of DLSP to depth of 2 feet. Initiated offsite transport of excavated soil - 24 trucks loaded and sent to U.S. Ecology in Grand View, ID.

Transite Pipe Removal. Completed landfill cell construction. Continued transport/staging of transite pipe to landfill. Approximately 6,600 linear feet of pipe was transported to the landfill cell area.

Thumb Pond and Sub-Area A Capping - Initiated capping of the Thumb Pond. By end of this period, capping of Thumb Pond was nearly complete. Installed geogrid at Sub-Area A.

11/17-11/23. ARC contractors, including USA Environmental, Desert Engineering, LVI and Brown and Caldwell continued operations on all three removal actions. EPA and START contractor were onsite to conduct oversight of the removal work. Fugitive dust monitoring was performed by ARC contractors. Work at the site was suspended on 11/23, for the Thanksgiving holiday.

Rad Removal. Continued excavation of soil from the 17 areas and the DLSP. By the end of the period, 87 trucks (approximately 2,200 tons of soil) in total had been loaded and sent for offsite disposal at U.S. Ecology.

Transite Pipe Removal. Continued transport/staging of transite pipe to landfill cell. By the end of this period, approximately 18,000 linear feet of

transite pipe had been transported to the landfill cell area.

Thumb Pond and Sub-Area A Capping. Capping of Thumb Pond was completed. Capping of Sub-Area A was initiated.

Planned Removal Actions

EPA and the Atlantic Richfield Company (ARC) signed an Administrative Order on Consent under which ARC agreed to conduct four removal actions: removal of electrical hazards, removal of radiological soil contamination, removal of transite pipe and capping of two areas (Thumb Pond and Sub Area A). The electrical hazards removal has been completed and the other three removal actions are now underway. EPA and the START contractor are providing field oversight of the ARC removals

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
RST/START	\$75,000.00	\$50,000.00	\$25,000.00	33.33%
Intramural Costs				
USEPA - Direct (Region, HQ)	\$75,000.00	\$50,000.00	\$25,000.00	33.33%
Total Site Costs				
	\$150,000.00	\$100,000.00	\$50,000.00	33.33%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

response.epa.gov/YeringtonAnacondaMine

POLREP #3 Last Updated 2/1/2011