

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

**Date:** Friday, July 28, 2006**From:** Harry Allen IV, OSC**To:** Daniel Meer, EPA R9  
Peter Guria, EPA ERSSherry Fielding, EPA HQ  
Keith Takata, EPA R9 Superfund Division**Subject:** Initiation of Action  
Iron King Mine  
Main Street and Highway 69, Dewey-Humboldt, AZ

<b>POLREP No.:</b>	1	<b>Site #:</b>	09KM
<b>Reporting Period:</b>		<b>D.O. #:</b>	
<b>Start Date:</b>	7/24/2006	<b>Response Authority:</b>	CERCLA
<b>Mob Date:</b>	7/24/2006	<b>Response Type:</b>	Time-Critical
<b>Completion Date:</b>		<b>NPL Status:</b>	Non NPL
<b>CERCLIS ID #:</b>		<b>Incident Category:</b>	
<b>RCRIS ID #:</b>		<b>Contract #</b>	

**Site Description**

The Iron King Mine Site consists of 4 residential parcels and a portion of an adjacent property owned by Ironite Products Company. The Site is located in Dewey-Humboldt, AZ. The residential parcels are contaminated with elevated levels of Arsenic in surface soil. The 95% Upper Confidence Limit (UCL) for each parcel exceeded 100 ppm.

EPA ordered Ironite to undertake removal actions at each of the 4 residences under an Administrative Order on Consent (AOC). Ironite retained Brown & Caldwell to conduct resident relocation, soil sampling, engineering and oversight and Philips Services to conduct excavation and disposal.

Access was obtained for 3 of the parcels only. Ironite will remain under obligation to secure access for the 4th parcel under the deadlines stipulated in the AOC.

A soil cleanup goal of 23 ppm arsenic was established by EPA. The AOC required that a cleanup level of 23 ppm or a depth of 4 feet must be achieved.

Brown & Caldwell began pre-excavation sampling to determine the vertical and horizontal extent of excavation at each property and presented the results to EPA in weekly progress reports.

Brown & Caldwell prepared a relocation package for each of the effected residents.

**Current Activities**

Personnel - EPA-1, START-1, US Coast Guard Pacific Strike Team-2, Philips Services-4, Brown & Caldwell-3.

Relocation: on July 24th, residents of property 2 were provided relocation packages and asked to

leave their residences for seven days. Two houses were sealed with plastic and excavation activities commenced around the homes. As of July 26th, Brown & Caldwell obtained signed removal access agreements and relocation agreements with the owners of properties 3 & 4.

**Excavation:** Property 2 was excavated to a depth of at least 6 inches over the entire property. In addition, four discrete subsurface hot spots were excavated to depths ranging from 1 to 3 feet based on discrete exceedences of the 23 ppm goal at the respective depth. The horizontal extent of these subsurface removals was 10 by 10 feet. During this reporting period excavation of property 2 was completed.

A 500-gallon water truck was used for dust suppression. Real-time dust monitoring with 3 Personal Data Rams was conducted along the excavation perimeter.

**Disposal:** excavated soils were loaded into 2 Philips Services end-dumps and transported to the Ironite property for disposal. Disposed soil was graded flat at the disposal site. Each end-dump was decontaminated on plastic sheeting prior to departing the excavation and loading area.

**Confirmation Sampling:** START began collecting confirmation sampling of soils at the base of the excavated area to determine the effectiveness of the removal action. Samples were collected in a systematic random grid fashion and analyzed for arsenic.

### **Planned Removal Actions**

**Planned Removal Actions:** Backfill, grading and restoration of property 2 is expected to continue until August 2nd. Relocation agreements for these residents will be extended to accommodate the extended work period.

During the week of July 31st, excavation and disposal of contaminated soils on property 3 will take place. These removal activities will begin no later than August 1st. The residents of this property will be provided relocation allowance and asked to leave the property on the starting day. Excavation of soils at property 4 is expected to commence on August 6th.

### **Key Issues**

Three relocation agreements are now signed; however, Ironite, Brown & Caldwell and EPA should continue to stay in contact with residents to ensure their satisfaction. In addition, EPA will stay in close contact with State and Town officials.

[epaossc.net/IronKing](http://epaossc.net/IronKing)

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**Date:** Friday, August 04, 2006

**From:** Harry Allen IV, OSC

**To:** Daniel Meer, EPA R9  
Peter Guria, EPA ERS

Sherry Fielding, EPA HQ  
Keith Takata, EPA R9 Superfund Division

**Subject:** Iron King Mine  
Main Street and Highway 69, Dewey-Humboldt, AZ

<b>POLREP No.:</b>	2	<b>Site #:</b>	09MX
<b>Reporting Period:</b>		<b>D.O. #:</b>	
<b>Start Date:</b>	7/24/2006	<b>Response Authority:</b>	CERCLA
<b>Mob Date:</b>	7/24/2006	<b>Response Type:</b>	Time-Critical
<b>Completion Date:</b>		<b>NPL Status:</b>	Non NPL
<b>CERCLIS ID #:</b>		<b>Incident Category:</b>	
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**Site Description**

See POLREP 1

**Current Activities**

EPA-1, START-1, USCG-2, Philips Services-5-7, B&C-2.

Monday, 7/31.

Excavation continued on Property 2. Sample grids in the open field area and access roadway were extended to a 50 ft. grid. Samples were collected near the residences were collected on a 20 ft. grid. In areas where concentrations of arsenic were high enough to warrant additional excavation (to depths of -1.0 to -2.0 ft. bgs) areas were sampled on a 10 ft. grid.

Tuesday, 8/1.

Excavation of Property 2 completed. Total excavation encompassed 1540 Tons of contaminated soils. 42 soil samples were collected (included 8 QA samples) and submitted for analysis. The ouse on Property 3 was wrapped and the Owner accepted relocation package (return date Monday Aug. 7).

Excavation of Property 3 began.

Wednesday, 8/2.

Excavation continued on Property 3. START gridded Property 3 for sample collection. Humbolt Water Co. on site to assess a broken water line. RP contractor will repair and restore.

Thursday, 8/3.

Excavation of Property 3 completed. START collected and submitted for analysis 33 samples (included 5 QA samples). Water line repair completed. Backfill of Property 3 began. Rough backfill on Property 2 complete. Topsoil and rock will be delivered on Friday and finish

grading/restoration will be completed then. Property owners for Property 2 anticipated to return on Friday, 8/4.

### **Planned Removal Actions**

Planned Removal Actions:

During the week of August 7th, excavation and disposal of contaminated soils on property 4 will take place. These removal activities will begin no later than August 8th. The residents of this property will be provided relocation allowance and asked to leave the property on the starting day.

### **Key Issues**

Ironite, Brown & Caldwell and EPA should continue to stay in contact with residents to ensure their satisfaction. In addition, EPA will stay in close contact with State and Town officials.

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

**Date:** Friday, August 11, 2006  
**From:** Harry Allen IV, OSC

**To:** Daniel Meer, EPA R9  
Peter Guria, EPA ERS  
Sherry Fielding, EPA HQ  
Keith Takata, EPA R9 Superfund Division

**Subject:** Iron King Mine  
Main Street and Highway 69, Dewey-Humboldt, AZ

<b>POLREP No.:</b>	3	<b>Site #:</b>	09MX
<b>Reporting Period:</b>	8/7 - 8/11/2006	<b>D.O. #:</b>	
<b>Start Date:</b>	7/24/2006	<b>Response Authority:</b>	CERCLA
<b>Mob Date:</b>	7/24/2006	<b>Response Type:</b>	Time-Critical
<b>Completion Date:</b>		<b>NPL Status:</b>	Non NPL
<b>CERCLIS ID #:</b>		<b>Incident Category:</b>	Removal Action
<b>RCRIS ID #:</b>		<b>Contract #</b>	

#### Site Description

See Polrep 1

#### Current Activities

Week of 8/7 onsite: 1 OSC, 1 START, 1 USCG, 2 B&C, 6 PSC  
PSC completed excavation and removal of contaminated soils on Property 4. START/USCG marked out and collected post-excavation samples from the excavated area.

Backfill placement, gravel, grading/restoration of this property was also completed.

#### Planned Removal Actions

Although a impass exists over obtaining access to Property No. 7, Ironite is still under obligation to conduct removal activities at this Site. Ironite must obtain an access agreement from the property owner within the timeframe required by the AOC or request an extension.

#### Next Steps

In accordance with the AOC, Ironite must demonstrate that the excavation spoils will be stabilized at their disposal location. EPA anticipates finalizing the action once these spoils are stabilized.

#### Key Issues

Ironite, Brown & Caldwell and EPA will continue to stay in contact with residents to ensure their satisfaction. In addition, EPA will stay in close contact with State and Town officials to discuss the impact of future plans with the Iron King Mine.

Ironite will receive a written extension in order to complete the work documented during this reporting period. EPA already verbally extended the AOC timeframe to allow for this work.

[epaosc.net/IronKing](http://epaosc.net/IronKing)