

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Baycote Metal Finishing Site - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #16
Special
Baycote Metal Finishing Site
C5B2
Mishawaka, IN
Latitude: 41.6497046 Longitude: -86.1648540

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From: Paul Atkociunas, OSC

Date: 9/15/2012

Reporting Period: September 14 -15, 2012

1. Introduction

1.1 Background

Site Number:	C5B2	Contract Number:	EP-S5-09-05
D.O. Number:		Action Memo Date:	2/23/2012
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	5/29/2012	Start Date:	5/29/2012
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-Critical Removal Action: Manufacturing/Processing/Maintenance – Electroplating, Metal Finishing

1.1.2 Site Description

See Initial Polrep.

1.1.2.1 Location

The Baycote Metal Finishing Site is located at 1302 Industrial Drive in Mishawaka, St. Joseph County, Indiana 46544. The geographical coordinates for the Site are 41°39'0.03" North latitude and 86°09'57.11" West longitude. The Site is bordered by industrial properties to the north, east, and south and Industrial Drive and industrial properties to the west. Residential properties are located approximately 700 feet to the west. Seven churches and two schools are located within 1 mile of the Site. The St. Joseph River, a major

surface water body that terminates in Lake Michigan, is located 0.85 mile northwest of the Site.

1.1.2.2 Description of Threat

See Initial Polrep.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See Initial Polrep.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

In a letter dated November 11, 2011, the St. Joseph County Health Department (SJCHD) requested assistance from the U.S. EPA to secure hazardous wastes left on-site. SJCHD was concerned that the Site posed a significant threat to the health and safety of companies within the industrial park as well as the residential area located less than a 1,000 feet from the facility. On February 23, 2012, the Director of U.S. EPA's Superfund Division approved an Action Memorandum for a time-critical removal action at the Baycote Metal Finishing Site.

On April 6, 2012, U.S. EPA issued a Unilateral Administrative Order to the potentially responsible parties to conduct a removal action at the Site. The potentially responsible parties presented an inability to pay argument and indicated that they did not intend to conduct a removal action at the Site. EPA began time-critical removal actions at the Baycote Site on May 29, 2012.

This is a large Site, with 11 plating lines in 6 areas and several waste water treatment systems. The OSC and its contractors have adopted a work plan to prioritize the high hazard areas / plating lines.

2.1.2 Response Actions

September 14

Ten containers of waste were placed into the cubic yard container for consolidation / disposal (approximately 1,000 pounds total). Laboratory data from the composite sample contained 49,000 milligrams per kilogram of total cyanide. Hazard Categorization data from the waste placed into the composite container did not document reactive substances. However, there were four 35-gallon containers that contained bagged labeled as Sodium hydrosulfite (reactive material).

At approximately 1900 a fire/chemical reaction occurred in the shipping container located in the storage area of the facility. The local Fire Department reported the incident to the U.S. EPA. The local Fire Dept. extinguished the fire, but a vapor cloud was observed around the container. Initial readings by the Fire Dept. were 6.5 ppm of HCN inside the building but, HCN was not detected outside the building. The incident was confined to the container and the building structure was not involved. Fire Dept. waited for EPA before further site entries. Roads were closed between Byrkit Avenue west to Merrifield, and 12th Street north to Lincoln Way East. Approximately 200-300 residents were advised to shelter-in-place, and 34 residents in a nearby senior center were evacuated to a shelter and assisted by the Red Cross. No injuries have been reported at this time.

2200hrs

OSC Mendoza arrived on scene and is coordinated response activities with the Fire Chief. AreaRAEs will be deployed in the evacuation zone. Mark Johnson (ATSDR) arrived to assist the OSC with health related questions and concerns, and advise on evacuation decisions. ERRS crew arrived and will initiate cleanup actions to address the released waste material and repackage the contents.

September 15, 2012

0100 - OSC, ERRS and Fire chief worked out a plan to send in ERRS in level B to break up the burning pile into several pieces and secure the pieces in steel drums to let the reaction take its course in a controlled environment with monitoring.

0451- ATSDR and OSC sent Incident Command (Fire Chief) an email recommending the lifting of the evacuation order based on non-detects for the contaminants of concern.

0500 - Air monitoring onsite and in the community is ongoing non-detects continue for hydrogen sulfide, hydrogen cyanide, and sulfur dioxide.

0730 OSC Atkociunas arrived onsite. OSCs Atkociunas, Mendoza and ATSDR Representative Mark Johnson conducted news interviews with WSBT (CBS Affiliate), WNDU (NBC Affiliate) and Fox 28 News regarding the incident. The reaction has stabilized. EPA, START and ERRS will continue to monitor the drums. No temperature changes in the drums have been detected. Air monitoring results of the ambient air near the drums is at background. The evacuation order was lifted by Incident Command.

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

The next steps for the incident that occurred on September 14 include:

1. Monitoring the containers for any additional reactions.
2. Conduct air monitoring / sampling in the community.
3. Determine final management of the waste in the eight containers

4. Investigate the cause of incident and implement corrective measures

2.2.2 Issues

The exact cause of the fire is under investigation. Ten containers of waste were placed into the cubic yard container for consolidation / disposal. Laboratory data from the composite sample contained 49,000 milligrams per kilogram of total cyanide. Hazard Categorization data from the waste placed into the composite container did not document reactive substances. However, there were four 35-gallon containers that contained bagged containers labeled as Sodium hydrosulfite. Sodium hydrosulfite is spontaneously combustible material. The material within the container was not consumed, however the liner and cubic yard box caught on fire. The consolidation of the wastes caused incompatible materials to react exothermically with decomposition products likely generated (including hydrogen cyanide, hydrogen sulfide, and sulfur dioxide).

2.3 Logistics Section

NA

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,300,000.00	\$754,000.00	\$546,000.00	42.00%
START	\$142,500.00	\$103,655.00	\$38,845.00	27.26%
Intramural Costs				
Total Site Costs	\$1,442,500.00	\$857,655.00	\$584,845.00	40.54%

* 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.

2.5 Other Command Staff

2.5.1 Safety Officer

The Health and Safety Plan was approved and signed by all site personnel.
Health and Safety meetings are held daily.

2.5.2 Liaison Officer

NA

2.5.3 Information Officer:

Community Involvement Coordinator: Ginny Narsete

3. Participating Entities

3.1 Unified Command

City of Mishawaka Fire Department was the Incident Commander for the Emergency Response.
U.S. EPA will resume removal activities on Monday, September 17.

3.2 Cooperating Agencies

IDEM
City of Mishawaka
St. Joseph County Health Department
Mishawaka Fire Department
ATSDR

4. Personnel On Site

The following numbers of personnel were on-Site during the reporting period:

Organization	Position	# Personnel
EPA	OSC	1
ERRS	Response Manager	1
	Chemist	
	Foreman	1
	Laborer	4
	Field Cost Accountant	
	Equipment Operator	2
Weston	START	2

5. Definition of Terms

Baycote	Baycote Metal Finishing Site
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRZ	Contamination Reduction Zone
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
D.O.T.	Department of Transportation
FCA	Field Cost Accountant
HASP	Health and Safety Plan
HAZCAT	Hazardous Categorization
IDEM	Indiana Department of Environmental Management
NA	Not Applicable
OSC	On-Scene Coordinator
PolRep	Pollution Report
RCRA	Resource Conservation and Recovery Act
PRP	Potentially Responsible Party
RM	Response Manager
START	Superfund Technical Assessment and Response Team
ATSDR	Agency for Toxic Substances and Disease Registry

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosoc.org/BaycoteMetalFinishing

6.2 Reporting Schedule

Progress POLREPS will resume during the week of September 17.

7. Situational Reference Materials

No information available at this time.

POLREP #16 Last Updated 9/16/2012