

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Kiser Plating - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #6
Progress PolRep
Kiser Plating
B5XK
Muncie, IN
Latitude: 40.1898450 Longitude: -85.3829730

To:
From: Shelly Lam, On-Scene Coordinator
Date: 9/3/2013
Reporting Period: August 19 - September 3, 2013

1. Introduction

1.1 Background

Site Number:	B5XK	Contract Number:	EP-S5-09-05
D.O. Number:	119	Action Memo Date:	3/22/2013
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	6/14/2013	Start Date:	6/14/2013
Demob Date:		Completion Date:	
CERCLIS ID:	IND984891879	RCRIS ID:	IND984891879
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Incident Category:
Manufacturing/Processing/Maintenance - Metal fabrication/finishing/coating

1.1.2 Site Description

The site is the former Kiser Plating. Kiser Plating operated as plating shop from approximately 1911 until 1999. It operated under the names Muncie Jewelry & Plating Works, J.F. Kiser Company Plating Works, and Shear-Line Golf. Former operations included plating silver tableware, gold and silver jewelry, nickel golf clubs, and military parts for World Wars I and II, the Korean War, and the Vietnam War. Muncie Heat Light and Power Company, Muncie Electric Light Company, a hay warehouse, and Muncie Bagging Company also operated at the property prior to the plating shop. In 2001, the majority of the buildings on the property were destroyed in a fire. The City of Muncie demolished the one remaining building in 2010 or 2011. The site is currently vacant.

1.1.2.1 Location

Kiser Plating is located at 401 E. Howard Street in Muncie, Delaware County, Indiana. The geographical coordinates are 40.1902° north latitude and 85.3832° west longitude.

Kiser Plating is located in the southeast portion of downtown Muncie in an area that is a mixture of commercial, residential, and industrial properties. A residential building is located north of Kiser Plating across Howard Street; a warehouse and former industrial property are to the east across an alley; a commercial building is located to the south; and residential properties are located to the west. Based on 2010 census data, approximately 10,000 people live within one mile of the site.

1.1.2.2 Description of Threat

The Environmental Protection Agency (EPA) conducted a site assessment and documented the presence of hazardous substances as defined by section 101(14) of CERCLA including arsenic, cadmium, copper, 1,1-dichloroethene, trans-1,2-dichloroethene, ethylbenzene, mercury, nickel, tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, and xylene.

Hazardous substances are present in soil and soil vapor. Possible exposure routes for hazardous substances include dermal contact with contaminated soil and inhalation of contaminated air that has migrated through subsurface soil and groundwater (i.e. vapor intrusion [VI]). Potential human receptors include trespassers, future workers and nearby residents

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See previous Pollution Reports (PolRep) for information on assessment results.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

EPA initiated time-critical removal actions on June 14, 2013. Removal actions will include developing and implementing site plans, including a Work Plan, Health and Safety Plan, and Air Monitoring Plan; removing approximately 1,500 cubic yards of contaminated soil based on site assessment analytical results; backfilling excavated areas with clean impermeable fill; conducting vapor intrusion assessment at up to 50 nearby properties within ¼ mile of the site; performing vapor intrusion mitigation at residential properties where assessment results show that relevant indoor air action levels are exceeded in accordance with current EPA guidance; and consolidating and packaging hazardous substances, pollutants and contaminants for transportation and off-site disposal in accordance with the EPA Off-Site Rule, 40 Code of Federal Regulations (CFR) § 300.440.

2.1.2 Response Actions to Date

From August 19 - September 3, 2013, EPA conducted the following activities:

- Backfilled and graded excavation;
- Seeded excavated areas;
- Conducted dust suppression;
- Maintained site security during off-site hours through August 29th;
- Demobilized heavy equipment on September 3rd;
- Removed fencing on September 3rd; and
- Held a public meeting on August 21st.

EPA collected soil confirmation samples from completely excavated grids. Samples were collected from the floor and walls of each grid. Samples for metals analysis were composited from five locations. Grab samples for volatile organic compound (VOC) analysis were collected from the center of the floor or wall. The table below provides **final** maximum concentrations for the grids compared to EPA's Removal Management Levels (RML) for commercial/industrial soil and the Indiana Department of Environmental Management's (IDEM) Commercial/Industrial Direct Contact Soil Exposure Levels. Although arsenic concentrations exceeded IDEM industrial exposure limits, arsenic concentrations were in the range of concentrations naturally occurring in area soils. A map showing grid locations is posted to www.epaosc.org/kiserplating.

Analyte	Maximum Concentration	IDEM Industrial Exposure Level	Industrial RML	Units
Metals				
Arsenic	22.8	16	160	mg/kg
Barium	783	100,000	570,000	mg/kg
Cadmium	98.5	800	2,400	mg/kg
Chromium	746			mg/kg
Chromium, Hexavalent	57.9	56	560	mg/kg
Lead	143	1,300	800	mg/kg
Mercury	1.3	3.1	130	mg/kg
Silver	3.5	5,100	15,000	mg/kg
VOCs				
1,2,4-Trimethylbenzene	4	220,000	780,000	ug/kg
cis-1,2-Dichloroethene	9.5	2,000,000	6,100,000	ug/kg
Methylene Chloride	21.5	530,000	9,200,000	ug/kg
Tetrachloroethene	9.4	26,000	1,200,000	ug/kg
Trichloroethene	2,360	20,000	60,000	ug/kg

mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Based on available information, the PRPs do not have the financial resources to conduct the work. The former owner is in Chapter 7 receivership.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Contaminated soil	Solid	4167.33 tons	Various	None	Jay County Landfill

2.2 Planning Section

2.2.1 Anticipated Activities

The next sections discuss EPA's planned response activities and next steps.

2.2.1.1 Planned Response Activities

EPA will begin VI assessment the week of September 9th.

2.2.1.2 Next Steps

EPA will initiate VI assessment and mitigation, if necessary.

2.2.2 Issues

None

2.3 Logistics Section

EPA's contractors are providing logistical support.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

On-Scene Coordinator (OSC) Shelly Lam is the safety officer for time-critical removal actions. EPA approved the Health and Safety Plan (HASP) and contractors are attending daily health and safety meetings.

2.5.2 Liaison Officer

Not applicable (NA)

2.5.3 Information Officer

EPA conducted a community meeting on August 21st. Thirty-five community members attended the meeting. EPA staff provided attendees updated information on testing and next steps at the site.

OSC Lam conducted interviews with The Muncie Star Press and WISH TV. Links to articles and video clips have been posted to the Links section at www.epaosc.org/kiserplating.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

Cooperating agencies include the City of Muncie, Delaware County Health Department, and IDEM.

4. Personnel On Site

The following numbers of personnel were on-site during the reporting period.

Agency # Personnel

EPA 1

START 1

ERRS 3

5. Definition of Terms

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

EPA Environmental Protection Agency

ERRS Emergency and Rapid Response Services

HASP Health and Safety Plan

IDEM Indiana Department of Environmental Management

mg/kg milligrams per kilogram

NA Not applicable

OSC On-Scene Coordinator

PCE Tetrachlorethene

PolRep Pollution Report

PRP Potentially Responsible Party

RML Removal Management Level

START Superfund Technical Assessment and Response Team

TCE Trichloroethene

TDD Technical Direction Document

ug/kg micrograms per kilogram

VI Vapor Intrusion

VOC Volatile Organic Compound

XRF X-ray fluorescence

6. Additional sources of information

6.1 Internet location of additional information/report

Refer to www.epaosc.org/kiserplating for additional information.

6.2 Reporting Schedule

The OSC will submit the next PolRep at the end of September.

7. Situational Reference Materials

NA