

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Hard Chrome Plating Site - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #10**
Final
Hard Chrome Plating Site

Grand Rapids, MI
Latitude: 42.9356380 Longitude: -85.6435440

To:
From: Elizabeth Nightingale, OSC
Date: 7/29/2016
Reporting Period: 2/18/16-6/17/16

1. Introduction

1.1 Background

Site Number:	C57Z	Contract Number:	
D.O. Number:		Action Memo Date:	10/5/2015
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	11/30/2015	Start Date:	11/30/2015
Demob Date:	6/17/2016	Completion Date:	6/17/2016
CERCLIS ID:	MIN000505853	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time Critical Removal Action

1.1.2 Site Description

The site is a former chemical plating facility, currently owned by the Kent County Land Bank. When the property tax reverted, historically accumulated plating wastes were abandoned in the building, and discovered by the Land Bank.

1.1.2.1 Location

The site is located at 1516 Blaine Avenue SE, Grand Rapids, Kent County, Michigan 49507. The site totals approximately 1/4 acre, and contains a one story industrial building and an open lot. The site was recently occupied by the Hard Chrome Plating and HCP Finishing LLC companies, and tax reverted to the Kent County Land Bank in 2014.

1.1.2.2 Description of Threat

See POLREP 1.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP 1.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

2.1.2.1 Actions During Reporting Period

Over the reporting period, work focused primarily on the following activities:

- Remobilized on 4/12/16.
- Arranged disposal of staged containerized waste, and shipped waste offsite for proper disposal.

- Completed removal of vats. The one vat remaining onsite was shipped offsite for recycling.
- Completed final decontamination of the site to decontaminate building floors and walls, and encapsulate remaining dust on walls.
- Continued to implement air monitoring program.
- Demobilized from site on 4/25/16.
- Returned to site on June 13 and June 17, 2016 to oversee shipment of last drum of waste offsite for proper disposal, then demobilized.

Security was on site 24 hours a day 7 days a week through 4/12/16 while we were off-site arranging disposal. After we remobilized on 4/12/16, security was present during non-working hours. Security was discontinued on 4/22/16.

2.1.2.2 Air Monitoring

Every day that cleanup activity work was ongoing, air monitoring was conducted to ensure public and worker safety. Please see the air monitoring plan and POLREP 2 for details.

A website was established to view the current and past air monitoring data for the site. To view the data go to the web address: viper.ert.org. You have to create a login on your first visit to the site. Once logged in, go to the R05 Hard Chrome Metals Deployment to view site data.

Particulate Air Monitoring:

Over the reporting period, no exceedances of the perimeter or work zone action levels (calculated as work day averages) for particulates were detected.

MultiGas Air Monitoring:

Over the reporting period, no exceedances of the perimeter or work zone action levels were verified.

Hydrochloric Acid Monitoring

Over the reporting period, no exceedances of the perimeter or work zone action levels were detected.

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

General notice letters were issued to former owners of the property. Investigation is ongoing.

2.1.4 Progress Metrics

Regional Metrics

	Miles of river systems cleaned and/or restored	0
This is an Integrated River Assessment. The numbers should overlap.	Cubic yards of contaminated sediments removed and/or capped	0
	Gallons of oil/water recovered	0
	Acres of soil/sediment cleaned up in floodplains and riverbanks	0
	Number of contaminated residential yards cleaned up	0
Stand Alone Assessment	Number of workers on site	12
Contaminant(s) of Concern	Various acids, metals and cyanide	

Oil Response Tracking

Estimated volume	Initial amount released	n/a
	Final amount collected	n/a
	FPN Ceiling Amount	n/a
CANAPS Info	FPN Number	n/a
	Body of Water affected	n/a

Administrative and Logistical Factors (Place X where applicable)

Precedent-Setting HQ Consultations (e.g., fracking, asbestos)	x	Community challenges or high involvement	Radiological
x More than one PRP		Endangered Species Act / Essential Fish Habitat issues	Explosives
AOC		Historic preservation issues	x Residential impacts
UAO		NPL site	Relocation
DOJ involved		Remote location	Drinking water impacted
Criminal Investigation Division involved		Extreme weather or abnormal field season	x Environmental justice
Tribal consultation or coordination or other issues		Congressional involvement	x High media interest

Statutory Exemption for \$2 Million	Statutory Exemption for 1 Year	Active fire present
x Hazmat Entry Conducted – Level A, B or C	Incident or Unified Command established	Actual air release (not threatened)

Green Metrics

Metric	Amount	Units
Diesel Fuel Used	264	gallons
Unleaded Fuel Used	1139	gallons
Alternative/E-85 Fuel Used - Propane	115	pounds
Electricity from electric company	16568	kWh
Electric Company Name and Account #		
Electricity from sources other than the electric company	0	kWh
Solid waste reused	0	
Solid waste recycled - metal	6.7	tons
Solid waste recycled - mixed	10	cy
Solid waste recycled - florescent bulbs	61	units
Water Used	250	gallons

Manifest Tracking No.	Waste Stream Description	Phase	Total Quantity	Quantity Units
016043336 JJJ	Hazardous Waste with Chromium	Liquid	1,250	Gallons
			55	Gallons
016043330 JJJ	Oxidizing Waste with Chromium	Liquid	95	Gallons
		Solid	170	Gallons
	Oxidizing Waste with Nitric Acid		190	Gallons
		Liquid	245	Gallons
		Liquid	55	Gallons
016043335 JJJ	Flammable Waste with Toluene/Chromium	Liquid	2,080	Gallons
			55	Gallons
			85	Gallons
	Hazardous Waste with Barium	Liquid	55	Gallons
		Solid	315	Gallons
	Hazardous Waste with Chromium	Solid	170	Gallons
		Solid	55	Gallons
		Solid	170	Gallons
		Solid	6,000	Pounds
	Ammonium Hydrogen Flouride	Not Listed	30	Gallons
016043335 JJJ	Non-Hazardous, Non-Regulated	Not Listed	55	Gallons
	Hazardous Waste with Chromium	Solid	55	Gallons
016043335 JJJ	Corrosive Waste with Chromium	Liquid	1,110	Gallons
	Hazardous Waste with Chromium		165	Gallons
		Liquid	255	Gallons
	Hazardous Waste with Chromium/Lead	Liquid	110	Gallons
016043335 JJJ	Corrosive with Sodium Hydroxide/Metasilicate	Solid	95	Gallons
	Non-Hazardous, Non-Regulated	Not Listed	110	Gallons
016043374 JJJ	Hazardous Waste with Chromium	with Solid	85	Gallons
			95	Gallons

016043333 JJJ	Oxidizing Waste with Chromium/Cadmium	Liquid	55	Gallons
		Liquid	55	Gallons
	Oxidizing Waste with Chromium/Lead	Liquid	1,320	Gallons
016043370 JJJ	Corrosive Waste with Sodium Hydroxide	Liquid	315	Gallons
	Flammable Waste	Liquid	60	Gallons
016043331 JJJ	Oxidizing Waste with Chromium	Liquid	700	Gallons
016033404 JJJ	Asbestos	Solid	100	Pounds
016043334 JJJ	Hazardous Waste with Chromium	Solid	85	Gallons

Waste Stream Description	Total Quantity	Quantity Units	Date
Non-DOT, Non-RCRA Regulated Material (C&D Debris)	8	Tons	12/04/15
Non-DOT, Non-RCRA Regulated Material (C&D Debris)	8	Tons	01/13/16
Non-DOT, Non-RCRA Regulated Material (C&D Debris)	8	Tons	02/04/16
Non-DOT, Non-RCRA Regulated Material (C&D Debris)	8	Tons	02/12/16
Non-DOT, Non-RCRA Regulated Material (C&D Debris)	8	Tons	04/25/16

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

See POLREP 1.

2.2.1.2 Next Steps

All actions planned as part of this removal have been completed.

- 2.2.2 Issues

There is a known hex chrome groundwater plume that was attributed to the Hard Chrome facility. The plume location was last examined in 1993. When we started this project, we were told that the neighborhood surrounding the facility was on City water, but were not aware that the City does not require property owners to hookup to City water. We found that out recently. In light of that finding we examined the area around the 1993 plume location for drinking water wells – we identified 1 drinking water well (State then sampled it and it tested non-detect for hex chrome); and two other properties with no record of connection to City water (1 is abandoned, 1 does not use drinking water). Additionally, there are numerous properties that did not abandon their wells after they hooked up to City water.

We subsequently worked with state and local agencies to attempt to identify other potential wells in a larger area still being utilized in the area. On May 23, 2016, the City of Grand Rapids completed a review of an additional 935 parcels in the area, downgradient of the Hard Chrome facility, and did not identify any additional parcels with buildings that are not served by City water. The areas checked in both evaluations are depicted in a figure located in the documents section of the EPAOSC.ORG website for this response.

We also requested that the state pre-remedial program assess this site for potential future action related to the

groundwater plume.

2.3 Logistics Section

ERRS managed site logistics.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

OSC served in this role.

2.5.2 Liaison Officer

OSC served in this role.

2.5.3 Information Officer

OSC served in this role.

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

Kent County Land Bank

Michigan Department of Environmental Quality

Michigan Department of Health and Human Services

Kent County Health Department

City of Grand Rapids

4. Personnel On Site

4/13/16-4/15/16

EPA: 1

START: 1

ERRS: 7

4/18/16

EPA: 1

START: 1

ERRS: 5

4/19/16-4/22/16

EPA: 1

START: 1

ERRS: 6

4/23/16

ERRS: 6

4/25/16

ERRS:1

6/13/16

EPA: 1

ERRS: 1

6/17/16

ERRS:1

5. Definition of Terms

ATSDR Agency for Toxic Substances and Disease Registry

BZ Breathing Zone

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System

DNR Department of Natural Resources

EPA Environmental Protection Agency

ERNS Emergency Response Notification System

ERRS	Emergency and Rapid Response Service
MDEQ	Michigan Department of Environmental Quality
NCP	National Oil and Hazardous Substance Pollution Contingency Plan
mg/m3	miligrams per cubic meter
NOAA	National Oceanic and Atmospheric Administration
NPL	National Priorities List
NRC	National Response Center
OSC	On Scene Coordinator
PPE	Personal Protective Equipment
PPM	Parts per million
RCRIS	Resource Conservation and Recovery Act Information System
RP	Responsible Party
RRT	Regional Response Team
START	Superfund Technical Assessment and Response Team
ug/m3	micrograms per cubic meter
US FWS	United States Fish and Wildlife Service
USCG	United States Coast Guard Atlantic Strike Team
AST	
VOC	Volatile Organic Compound

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaossc.net/hardchromeplating

and

vip.er.ert.org. Once logged in, go to the R05 Hard Chrome deployment to view site data.

6.2 Reporting Schedule

No further reports are anticipated for this action.

7. Situational Reference Materials

No information available at this time.