

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Michner Plating - Mechanic Street Site - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #14
Michner Plating - Mechanic Street Site
C57C
Jackson, MI
Latitude: 42.2541975 Longitude: -84.4060903

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From: Jeffrey Kimble, OSC

Date: 4/26/2016

Reporting Period:

1. Introduction

1.1 Background

Site Number:	C57C	Contract Number:	
D.O. Number:		Action Memo Date:	7/2/2015
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	8/24/2015	Start Date:	8/24/2015
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-Critical Removal Action.

1.1.2 Site Description

Michner Plating Mechanic Street (Site) is a former plating shop which operated from the 1930s until 2007. Michner Plating also operated a separate facility on Angling Road in Jackson, Michigan, until May 2015. The Site contains approximately 1,100 drums, vats, totes, and other containers. Labels and sample analytical results indicate the potential presence of cyanide, zinc cyanide, nickel chloride, chromic acid, hydrogen peroxide, sulfuric acid, ignitable wastes, reactive wastes (including water reactive chemicals), and other chemicals.

1.1.2.1 Location

The Site is located at 520 North Mechanic Street in Jackson, Jackson County, Michigan, in a mixed commercial and residential area and is bound to the north by a commercial property, to the east by North Mechanic Street with residential dwellings and commercial properties beyond, to the south by East Trail Street with commercial properties beyond, and to the west by a railroad and the Grand River. The Site sits on roughly 4 acres, and contains four buildings totaling approximately 137,000 square feet.

1.1.2.2 Description of Threat

The Site contains approximately 1,100 drums, vats, totes, and other containers. Labels and sample analytical results indicate the potential presence of cyanide, zinc cyanide, nickel chloride, chromic acid, hydrogen peroxide, sulfuric acid, ignitable wastes, reactive wastes (including water reactive chemicals), and other chemicals.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

EPA previously conducted an assessment and determined a Time-Critical Action was warranted. See Sitrep 1 for additional information.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

EPA began a Time-Critical action consisting of the removal of over 1,100 containers of hazardous waste on August 24, 2015.

2.1.2 Response Actions to Date

3/14/2016 – The crew completed waste bulking alkaline solid material in pit P008 and oxidizing solid material in pit P009. The crew also began waste bulking oxidizing solid material in vat B010 in the southern building. The chemist labeled packaged waste containers in the northern building in preparation for transport and disposal.

3/15/2016 – The crew completed waste bulking the oxidizing solid in vat B010 in the southern building, and 2 drums with neutral solids and 3 drums with flammable solids in the northern building. The crew also poured sample jars that were used for hazard categorization into the appropriate containers with compatible materials. The chemist continued labeling and staging packaged waste containers in the northern building in preparation for transport and disposal.

3/16/2016 – The crew received three poly totes and 5 poly 55-gallon drums, and continued waste bulking chromic acid containers. The crew also continued pouring sample jars into the appropriate containers, and continued labeling and staging the packaged waste containers for transport and disposal.

3/17/2016 – The crew completed waste bulking the chromic acid containers and collected samples from 12 containers with alkaline liquids that will be mixed during waste disposal. The chemist completed bucket bulking tests of the alkaline liquids. The crew also continued pouring sample jars into the appropriate containers. The roll-off dumpster with hazardous neutral solids was removed from the site and transported for disposal at EQ Detroit located at 1923 Frederick Street, Detroit, Michigan. Also, one load with 23 cubic yard boxes containing hazardous waste solids with cyanide was transported offsite for disposal at EQ Detroit in Detroit, Michigan.

3/18/2016 – The crew continued pouring sample jars into the appropriate containers. The crew also decontaminated equipment and secured the site buildings in preparation for the break prior to finishing transport and disposal. The crew staged the skidsteer, Bobcat loader, mini-excavator, and generators outside the building to be demobilized.

From 3/19 – 4/10/2016, no site work occurred.

4/11/2016 – Site personnel remobilized after shutdown. The crew began transferring alkaline liquids with high cyanide concentrations from vats into poly totes. Two loads were transported offsite for disposal. 16 cubic yard boxes and 1 drum of hazardous waste solids with cyanide, 1 drum of waste corrosive solids, and 18 drums of waste corrosive liquid were transported to Michigan Disposal Waste Treatment Plant located at 49350 North I-94 Service Drive, Belleville, Michigan; and 1 tote and 6 drums of hazardous waste liquid with cyanide and 6 cubic yard boxes of hazardous waste solids with cyanide were transported to EQ Detroit in Detroit, Michigan. The crew also labeled and staged packaged waste containers in preparation for additional offsite transport. The chemist collected a sample of an acidic solid material which was delivered to EQ Detroit for waste disposal purposes.

4/12/2016 – The crew continued transferring alkaline liquids with high cyanide concentrations from vats into poly totes. One load was transported offsite for disposal. 9 drums and 1 tote of hazardous waste liquids with cyanide, 5 cubic yard boxes and 4 drums of hazardous waste solids with cyanide, 4 cubic yard boxes and 4 drums of non-hazardous alkaline solids, 1 drum of waste oxidizing toxic solids, 1 tote of waste hypochlorite, 4 drums of non-hazardous carbon black solid, and 2 drums of waste hydrogen peroxide were transported to EQ Detroit in Detroit, Michigan.

4/13/16 – The crew completed transferring the alkaline liquids with high cyanide concentrations from vats into poly totes. The crew also power washed and soaked 4 drums of cadmium balls. The crew will collect

a sample of the cadmium balls to send to a local metal recycler to determine if they can be recycled. Four loads were transported offsite for disposal. 1 tanker truck with approximately 2,200 gallons of waste corrosive liquid was transported for disposal at Waste Management – Vickery Environmental located at 3956 State Route 412, Vickery, Ohio; 12 totes and 23 drums with waste acidic liquid, 3 drums with waste flammable liquid, 1 tote with waste sulfuric acid, and 1 tote with waste nitric acid were transported to Petro-Chem Processing Group located at 421 Lyncaste Street in Detroit, Michigan; 1 drum with waste sodium dithionite was transported to Heritage Environmental Services located at 7901 West Morris Street in Indianapolis, Indiana; and 10 cubic yard boxes and 11 drums with hazardous waste solid and 11 drums with waste acidic liquids were transported to EQ-Detroit in Detroit, Michigan.

4/14/2016 – The crew began decontaminating equipment and packing up the site trailers. The chemist delivered the cadmium ball sample. 3 loads were transported offsite for disposal. 19 drums with waste flammable liquid, 25 drums with hazardous waste solids, 5 drums with non-hazardous multi phase liquid, 1 drum of non-hazardous motor oil, and 2 totes and 20 drums of hazardous waste liquid were transported to Petro-Chem Processing Group in Detroit, Michigan; 17 totes of waste corrosive liquid with cyanide were transported to EQ-Detroit in Detroit, Michigan; and 9 drums with waste sodium cyanide, 1 drum with waste zinc cyanide, 3 drums with waste flammable liquids, 1 drum with waste flammable aerosols, and 7 cubic yard boxes and 2 drums with waste cyanide solids were transported to Ross Incineration Services located at 36790 Giles Road in Grafton, Ohio.

4/15/2016 – The crew decontaminated equipment and packed up the site trailers. The crew staged the skidsteer and generators outside the building to be demobilized. Electricians will be onsite to disconnect the site trailers from electrical lines, and the site trailers will be demobilized next week.

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

Michner Plating Company is the potentially responsible party (PRP), however, the company relinquished ownership of the property to the Jackson County Treasurer's Office due to tax reversion and bankruptcy. The removal action is a Fund Lead as a result of the PRP's bankruptcy and inability to finance the cleanup.

2.1.4 Progress Metrics

Date	Waste stream	Medium	Quantity	units	Manifest Number	Treatment	Disposal
11/18/2015	Hazardous Waste Solid (RCRA empty containers & debris)	Solid	20				cubic yards
015269770	NA Michigan Disposal Waste Treatment						
11/18/2015	Hazardous Waste Solid (RCRA empty containers & debris)	Solid	20				cubic yards
015269771	NA Michigan Disposal Waste Treatment						
12/4/2015	Hazardous Waste Solid (RCRA empty containers & debris)	Solid	20				cubic yards
015269767	NA Michigan Disposal Waste Treatment						
12/8/2015	Hazardous Waste Solid	Solid	20	cubic yards	015269769	NA	Michigan
	Disposal Waste Treatment						
12/9/2015	Hazardous Waste Solid (RCRA empty containers & debris)	Solid	20				cubic yards
015269768	NA Michigan Disposal Waste Treatment						
12/10/2015	Waste Corrosive Liquid	Liquid	1045	Gallons	014463806	NA	Michigan
	Disposal Waste Treatment						
12/10/2015	Waste Corrosive Liquid	Liquid	555	Gallons	014463807	NA	EQ Detroit
12/10/2015	Waste Corrosive Liquid	Liquid	18105	Gallons	014463808	NA	Michigan
	Disposal Waste Treatment						
12/10/2015	Waste Flammable Liquid	Liquid	2340	Gallons	014463810	NA	Petro-Chem Processing Group
12/10/2015	Waste Flammable Liquid	Liquid	500	Gallons	014463811	NA	Petro-Chem Processing Group
12/14/2015	NonHazardous Alkaline Solids	Solid	33000	Gallons	014463819	NA	EQ Detroit
12/17/2015	Hazardous Waste Solid (RCRA empty containers & debris)	Solid	20				cubic yards
015516432	NA Michigan Disposal Waste Treatment						
12/17/2015	Waste Corrosive Liquid	Liquid	330	Gallons	014463864	NA	EQ Detroit
12/17/2015	NonHazardous Alkaline Solids	Solid	30100	Pounds	014463864	NA	EQ Detroit
2/26/2016	Non-hazardous neutral solids	solid	12	Tons	022360	NA	C&C landfill
3/9/2016	Non-hazardous pit water	Liquid	5000	Gallons	39161	NA	Disposal and Recycling Technologies, Inc.
3/9/2016	Non-hazardous pit water	Liquid	5000	Gallons	39162	NA	Disposal and Recycling Technologies, Inc.
3/10/2016	Non-RCRA, Non-DOT Regulated Tank Water	Liquid	4652	Gallons	014994712		NA EQ Detroit
3/10/2016	Non-hazardous pit water	Liquid	3300	Gallons	31016	NA	Disposal and Recycling Technologies, Inc.
3/10/2016	Non-RCRA, Non-DOT Regulated Tank Water	Liquid	5000	Gallons	014994732		NA EQ Detroit
3/10/2016	Hazardous Waste Liquid	Liquid	4236	Gallons	014994713	NA	Michigan Disposal Waste Treatment
3/17/2016	Hazardous Waste Solid	Solid	10	Tons	014994709	NA	EQ Detroit
3/17/2016	Hazardous Waste Solid	Solid	20	Tons	014994771	NA	EQ Detroit
4/11/2016	Hazardous Waste Liquid	Liquid	580	Gallons	014994812	NA	EQ Detroit
4/11/2016	Hazardous Waste Solid	Solid	7200	Pounds	014994812	NA	EQ Detroit
4/11/2016	Hazardous Waste Liquid	Liquid	495	Gallons	014994811	NA	EQ Detroit
4/11/2016	Hazardous Waste Solid	Solid	14400	Pounds	014994811	NA	EQ Detroit
4/11/2016	Hazardous Waste Liquid	Liquid	55	Gallons	014994813	NA	EQ Detroit
4/11/2016	Hazardous Waste Solid	Solid	19200	Pounds	014994813	NA	EQ Detroit
4/11/2016	Waste Corrosive Liquid	Liquid	990	Gallons	014994815	NA	EQ Detroit

4/11/2016 Waste Corrosive Solid Solid 500 Pounds 014994815 NA EQ Detroit
 4/12/2016 Non-Hazardous Non Regulated Carbon Black Solid 1200 Pounds 014994832
 NA EQ Detroit
 4/12/2016 Waste Hydrogen Peroxide Liquid 70 Gallons 014994831 NA EQ Detroit
 4/12/2016 Hazardous Waste Liquid Liquid 700 Gallons 014994828 NA EQ Detroit
 4/12/2016 Hazardous Waste Solid Solid 6000 Pounds 014994828 NA EQ Detroit
 4/12/2016 Hazardous Waste Solid Solid 1600 Pounds 014994829 NA EQ Detroit
 4/12/2016 NonHazardous Alkaline Solids Solid 6400 Pounds 014994829 NA EQ Detroit
 4/12/2016 Waste Toxic Solids, Oxidizing Solid 60 Pounds 014994830 NA EQ Detroit
 4/12/2016 Waste Hypochlorite Solutions Liquid 300 Gallons 014994830 NA EQ Detroit
 4/12/2016 NonHazardous Alkaline Solids Solid 800 Pounds 014994830 NA EQ Detroit
 4/13/2016 Hazardous Waste Solids Solid 21400 Pounds 014994832 NA EQ Detroit
 4/13/2016 Hazardous Waste Solids Solid 1200 Pounds 014994836 NA EQ Detroit
 4/13/2016 Waste Acidic Liquids Liquid 505 Gallons 014994833 NA EQ Detroit
 4/13/2016 Hazardous Waste Solids Solid 2500 Pounds 014994837 NA EQ Detroit
 4/13/2016 Waste Sodium Dithionite Solid 100 Pounds 014994866 NA Heritage
 Environmental Services
 4/13/2016 Waste Corrosive Liquid, Basic Liquid 2200 Gallons 014994843 NA Waste
 Management - Vickery Environmental
 4/13/2016 Waste Corrosive Liquid, Acidic Liquid 970 Gallons 014994835 NA Petro-
 Chem Processing Group
 4/13/2016 Waste Corrosive Liquid, Acidic Liquid 645 Gallons 014994846 NA Petro-
 Chem Processing Group
 4/13/2016 Waste Corrosive Liquid, Flammable Liquid 115 Gallons 014994845 NA
 Petro-Chem Processing Group
 4/13/2016 Waste Corrosive Liquid, Acidic Liquid 185 Gallons 014994845 NA Petro-
 Chem Processing Group
 4/13/2016 Waste Sulfuric Acid Liquid 250 Gallons 014994844 NA Petro-Chem
 Processing Group
 4/13/2016 Waste Corrosive Liquid, Acidic Liquid 2385 Gallons 014994844 NA Petro-
 Chem Processing Group
 4/13/2016 Waste Nitric Acid Liquid 250 Gallons 014994844 NA Petro-Chem Processing
 Group
 4/14/2016 Waste Corrosive Liquid, Toxic Liquid 4250 Gallons 014994844 NA Petro-
 Chem Processing Group
 4/14/2016 Waste Sodium Cyanide Solid 2370 Gallons 014994863 NA Ross Incineration
 Services
 4/14/2016 Waste Zinc Cyanide Solid 220 Gallons 014994863 NA Ross Incineration
 Services
 4/14/2016 Waste Flammable Liquid Liquid 90 Gallons 014994861 NA Ross Incineration
 Services
 4/14/2016 Waste Flammable Aerosols Aerosols 35 Pounds 014994861 NA Ross
 Incineration Services
 4/14/2016 Waste Cyanides Solid 9000 Pounds 014994861 NA Ross Incineration
 Services
 4/14/2016 Hazardous Waste Liquid Liquid 1600 Gallons 014994858 NA Petro-Chem
 Processing Group
 4/14/2016 Non-Hazardous, Non Regulated Multiphase Liquid Liquid 275 Gallons
 014994857 NA Petro-Chem Processing Group
 4/14/2016 Non-Hazardous Motor Oil Liquid 30 Gallons 014994857 NA Petro-Chem
 Processing Group
 4/14/2016 Waste Flammable Liquid Liquid 495 Gallons 014994856 NA Petro-Chem
 Processing Group
 4/14/2016 Hazardous Waste Solid Liquid 8600 Pounds 014994856 NA Petro-Chem
 Processing Group
 4/14/2016 Waste Flammable Liquid Liquid 550 Gallons 014994855 NA Petro-Chem
 Processing Group
 4/14/2016 Hazardous Waste Solid Solid 460 Pounds 014994855 NA Petro-Chem
 Processing Group

2.2 Planning Section

2.2.1 Anticipated Activities

Complete disposal of PPE, RCRA empty drums, 1 roll off of hazardous floor sweepings, and demobilize project.

2.2.1.1 Planned Response Activities

Complete final disposal and conduct walk through with local officials.

2.2.1.2 Next Steps

Continue to perform the planned response actions until cleanup is complete.

2.2.2 Issues

Based on the difficulty encountered in managing and bulking the site waste to date, there will be little funding to address additional and potential sources of waste encountered on site during the cleanup process. The OSC has coordinate with the State of Michigan and EPA Remedial Branch to initiate further investigations into the extensive contaminated building structures and floors and potential underground hazards likely to exist at the site once the Time-critical cleanup is finished.

2.3 Logistics Section

Site logistics are being managed by ERRS.

Site infrastructure has been demobilized.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

The OSC has coordinated EPA response to 2 safety incidents on site with the ERRS contractor to the Region 5 H&S Officer.

2.5.2 Liaison Officer

2.5.3 Information Officer

3. Participating Entities

3.1 Unified Command

No Unified Command. This is a Time-Critical Response directed by EPA, not an ICS incident.

3.2 Cooperating Agencies

Jackson County Treasurer's Office
City of Jackson Water Department
Michigan Department of Environmental Quality (MDEQ)

4. Personnel On Site

EPA: 2
USCG: 7
START: 1
ERRS: 9

5. Definition of Terms

No information available at this time.

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.