

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Macosko Foundry Site - Removal Polrep  
 Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region I

**Subject:** POLREP #2  
 Final  
 Macosko Foundry Site  
 01MJ  
 Franklin, NH  
 Latitude: 43.4447111 Longitude: -71.6642406

**To:** Carol Tucker, US EPA-R1 OSRR EPRB  
 Ted Bzenas, US EPA-R1 OSRR EPRB ERRS I  
 Bryan Olson, US EPA

**From:** John Mckeown, On-scene coordinator

**Date:** 1/20/2016

**Reporting Period:** October 23, 2015 through January 20, 2016

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	01MJ	<b>Contract Number:</b>	EP-W-08-062
<b>D.O. Number:</b>	0051	<b>Action Memo Date:</b>	8/6/2015
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	10/13/2015	<b>Start Date:</b>	10/13/2015
<b>Demob Date:</b>	12/16/2015	<b>Completion Date:</b>	12/16/2015
<b>CERCLIS ID:</b>	NHN000101059	<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	Referred by NH DES
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

Time-Critical Removal Action

#### 1.1.2 Site Description

In January 2015, New Hampshire Department of Environmental Services (NHDES) requested that EPA Region I Emergency Planning and Response Branch (EPRB) conduct a Preliminary Assessment and Site Investigation (PA/SI) at the Macosko Foundry Site to determine if conditions at the abandoned facility met the criteria for EPA to conduct a time-critical removal action.

The Site has been used since approximately 1905 for various operations, including a foundry,

automobile garage, machine shop, and millworks. In 2002, foundry operations at the Site ceased. In May 2014, the property was transferred to the City of Franklin, NH by tax lien.

EPA conducted a PA/SI at the Site in April of 2015. The PA/SI, conducted by EPA's Superfund Technical Assistance and Response Team (START) contractor Weston Solutions confirmed the presence of hazardous substances (lead, arsenic and PAHs) in soils and waste adjacent to the Site and Chance Pond Brook, the presence of limited containers of hazardous substances inside of the building, the presence of universal wastes inside of the building, and overall structural degradation of the building, increasing the likelihood of a release of hazardous substances into the environment.

The EPA OSC determined that Site conditions present an imminent and substantial endangerment to human health and the environment and recommended a time-critical removal action to address the contamination located inside the building and adjacent to the building and Chance Pond Brook.

#### **1.1.2.1 Location**

Latitude: 43° 26' 49.6" N Longitude: 71° 39' 59.8" W

The Site comprises two parcels identified on the Franklin Tax Assessor's Office Map Number 97 as Parcels 37 and 38. The foundry is located primarily on Parcel 37, which is the southernmost parcel. Chance Pond Brook flows through the property.

#### **1.1.2.2 Description of Threat**

Primary threats at the Macosko Foundry Site include the following:

- Migration of hazardous substances in soils located adjacent to the facility structure into Chance Pond Brook.
- Fire and explosion hazard from containers of D001 waste abandoned inside the facility structure.
- Inhalation or ingestion of hazardous substances via direct contact exposure pathway.

#### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

The primary hazardous substances of concern at the Site are lead, arsenic and three poly-aromatic hydrocarbon (PAH) compounds including benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene. During the April PA/SI, EPA detected these hazardous substances in surface soils adjacent to the facility structure and Chance Pond Brook.

In addition to hazardous substances present in surface soils onsite, EPA discovered numerous small containers of hazardous substances consisting primarily of ignitable (D001) and corrosive (D002) characteristic waste inside of the building, along with various types of universal wastes, such as fluorescent bulbs and light ballasts.

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## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

EPA signed an Action Memorandum on August 6, 2015 to address contamination at the Site. The overall objective of the time-critical removal action is to remove all containers of hazardous substances from inside of the facility building and to remove surface soil located between the facility building and Chance Pond Brook with concentrations of hazardous substances exceeding the NH DES Soil Screening Levels. All removed and excavated waste will be disposed at an EPA approved disposal

facility.

### 2.1.2 Response Actions to Date

The following response actions have been completed to date:

- EPA, START and ERRS, Guardian Environmental Services (GES), mobilized to the Site on October 13, 2015.
- GES set up the Site and established three zones of work: 1) Exclusion Zone; 2) Contamination Reduction Zone; and 3) Clean Zone.
- GES inventoried, removed and over- packed containers of hazardous substances from inside of the facility structure.
- GES removed lead-containing coal ash from inside of the building and placed in a roll-off pending setup of transportation and disposal (T&D).
- GES excavated contaminated soil located between facility structure and Chance Pond Brook and moved to roll-off pending setup of T&D.
- START collected confirmation samples from excavated areas and NERL Field Screening XRF confirmed lead and arsenic levels were below NHDES SSLs.
- START conducted overall Site air monitoring and documented activities during the time-critical removal action.
- ERRS backfilled the excavated area with a clean fill source and planted grass seed to prevent erosion.
- ERRS conducted T&D of the two Non Hazardous roll-off containers of soil on November 16, 2015.
- ERRS conducted T&D of the Hazardous roll-off container on December 16, 2015.
- ERRS conducted T&D of the over packed containers of Hazardous Substances and Universal Wastes on December 16, 2015. ERRS team subcontractor ENPRO managed the T&D of these containers.
- EPA OSC McKeown conducted final Site walk with Mr. Dick Lewis, City Manager of City of Franklin, NH.

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

EPA is conducting this action as a fund-lead time-critical removal action. The City of Franklin, NH owns the Site and provided access to EPA. Franklin, NH also provided electrical power to the Site, a port-o-let, and removed debris from outside the facility to improve access to contamination.

### 2.1.4 Progress Metrics

Please see table below for summary of materials removed from the Site during this time-critical removal action.

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Disposal</i>
Non Hazardous	Soil	22 Tons	MF 5001	X
Non Hazardous	Soil	22 Tons	MF 5002	X
D008 Lead Contaminated	Soil	22 Tons	014067848 JJK	X
D002 Corrosive	Drum	1	003016173 GBF	X
D008 and D040 Lead and TCE	Drum	1	003016173 GBF	X
Waste Oil (contaminated)	Drum	2	003016173 GBF	X
Non Hazardous Solids	Drum	2	003016173 GBF	X
Non PCB Ballasts	Drum	1	003016173 GBF	X
Fluorescent Lamps (universal)	Box	9	003016173 GBF	X

Waste Paint (petroleum based)	Drum	2	003016176 GBF	X
D008 Liquid Tank	Drum	1	003016176 GBF	X
Sodium Hydroxide	Drum	1	003016176 GBF	X
Aerosol containers D001	Drum	1	003016176 GBF	X
Refrigerants (1,1,1-trifluoroethane)	Container	1	003016176 GBF	X

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

EPA removed the over packed containers located inside of the building and the final roll off located outside of the building on December 16, 2015. EPA also completed the final Site walk with Mr. Dick Lewis of the City of Franklin on this date. No further on-site activity is anticipated for this Site.

#### 2.2.1.1 Planned Response Activities

See above.

#### 2.2.1.2 Next Steps

See above

### 2.2.2 Issues

During the PA/SI and the time-critical removal action, EPA identified additional lead-containing waste ash located under the facility office in an enclosed confined space area along the south side of the facility structure. This material cannot be safely addressed without at least a partial demolition of the building. EPA enclosed the opening around this area to prevent migration into the soil and into Chance Pond Brook but did not remove the lead-containing waste ash as part of this action.

## 2.3 Logistics Section

No issues

## 2.4 Finance Section

### 2.4.1 Narrative

No issues

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$120,000.00	\$78,511.00	\$41,489.00	34.57%
TAT/START	\$40,370.00	\$16,247.00	\$24,123.00	59.75%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$160,370.00</b>	<b>\$94,758.00</b>	<b>\$65,612.00</b>	<b>40.91%</b>

\* 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**

### **2.5.2 Liaison Officer - NA**

### **2.5.3 Information Officer**

EPA assigned a Community Involvement Coordinator (CIC) to the project.

The CIC worked with the OSC to develop a Fact Sheet and delivered copies of the Fact Sheet to representatives of Franklin, NH and to nearby residents on Chance Pond Road.

## **3. Participating Entities**

### **3.1 Unified Command**

U.S.EPA

NH DES

City of Franklin, NH

### **3.2 Cooperating Agencies**

See above.

## **4. Personnel On Site**

### **EPA (3)**

OSC - John McKeown

Chemist - Scott Clifford

CIC - Kelsey O'Neil

### **NHDES (1)**

Mike McCluskey

### **City of Frnklin, NH (5)**

Dick Lewis and representatives from Franklin Department of Public Works.

### **START (1)**

Christine Dupree

### **ERRS (6)**

RM - Mike Quinlan plus one chemist, two equipment operators and two technicians from Guardian Environmental Services.

**5. Definition of Terms**

No information available at this time.

**6. Additional sources of information**

**6.1 Internet location of additional information/report**

EPA created a website for the Macosko Foundry Project on EPAOSC.org.

The link to the Website is: [www.epaosc.org/Macosko](http://www.epaosc.org/Macosko)

**6.2 Reporting Schedule**

This is the final POLREP for this Site.

EPA will post the After Action Report (AAR) for this project on the website and distribute to NHDES, City of Franklin, NH and parties involved with the Site under the Brownfields Grant. Hopefully, this will be delivered by mid February of 2016.

**7. Situational Reference Materials**

No information available at this time.