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***The Trusted Integrator for Sustainable Solutions***

REMOVAL SUPPORT TEAM 2  
EPA CONTRACT EP-W-06-072

December 6, 2012

Ms. Kimberly Staiger, On-Scene Coordinator  
U.S. Environmental Protection Agency, Region II  
Removal Action Branch  
2890 Woodbridge Avenue  
Edison, NJ 08837

**EPA CONTRACT NO: EP-W-06-072**

**TDD NO: TO-0027-0097**

**DOCUMENT CONTROL NO: RST 2-02-F-2215**

**SUBJECT: LEAD PAINT FIELD SCREENING TRIP REPORT - BARTH SMELTING  
CORPORATION SITE, NEWARK, ESSEX COUNTY, NEW JERSEY**

Dear Ms. Staiger,

Enclosed please find the Lead Paint Field Screening Trip Report for the Barth Smelting Corporation Site located at 99 Chapel Street in Newark, Essex County, New Jersey. Field screening for lead based paint was conducted as part of the Removal Assessment of the property on December 3, 2012. If you have any questions, please do not hesitate to contact me at (732) 585-4441.

Sincerely,

Weston Solutions, Inc.

For Scott Snyder  
Removal Support Team 2  
Site Project Manager/Group Leader

Enclosure

cc: TDD File No: TO-0027-0097



## **LEAD PAINT FIELD SCREENING TRIP REPORT**

**SITE NAME:** Barth Smelting Corporation  
**DC NO.:** RST 2-02-F-2215  
**TDD NO.:** TO-0027-0097

**EPA SITE ID NO.:** A22L  
**SAMPLING DATE:** December 3, 2012

- 1. Site Location:** Barth Smelting Corporation, 99 Chapel Street, Newark,  
Essex County, New Jersey  
Refer to Attachment A, Figure 1, Site Location Map
- 2. Field Screening Location:** Refer to Attachment A, Figure 2, Lead Field Screening Location  
Map and Attachment B, Table 1, Lead Field Screening Summary  
Table

### **3. Introduction:**

The Barth Smelting Corporation operated on the Barth Smelting Corporation Site (the Site) from approximately 1946 to 1982 and produced brass and bronze ingots and also worked with non-ferrous metals. The Site is located in a highly industrialized and urban area of Newark, Essex County, New Jersey, adjacent to the Passaic River. The area of the Site has been industrialized since the late 1800s. The Site is currently occupied by various maritime shipping and maintenance facilities. A residential area consisting of an apartment complex operated by the City of Newark Housing Authority is located to the south. A playground and grass-covered play area are located just beyond the fence that separates the Site and the apartment complex. Additional residential properties are located across Chapel Street to the east.

In order to determine if lead is present in painted surfaces of the playground, Weston Solutions, Inc., Removal Support Team 2 (RST 2) performed field screening for playground equipment. This report has been prepared to document the field screening activities which were completed in support of the Removal Assessment.

### **4. Field Screening Summary:**

On December 3, 2012, RST 2 conducted field screening activities for lead based paint for playground equipments located in between the Site and the apartment complex.

Field screening for lead in playground equipment paints was conducted using a portable X-ray fluorescence (XRF) analyzer. Locations for XRF field screening were selected at the discretion of the U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC). A total of 13 lead readings including two to three readings for each of the playground equipment and cinderblock wall separating the Site and playground were recorded. Locations for lead field screening records can be found in Attachment A, Figure 2.

## 5. Personnel On Site:

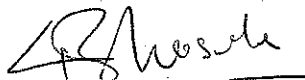
Name	Representing	Duties On-Site
Kimberly Staiger	U.S EPA, Region II	On-Scene Coordinator
Dipanjali Chavan	RST 2, Region II	XRF On-Site Field Screening Technician

## 6. Field Screening Discussion

Based on the field screening results, lead was detected at concentrations ranging from 0.05 to 0.19 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) for the playground equipment #1. For playground equipment #2, the lead concentrations ranged from 0.01 to 0.18  $\text{mg}/\text{cm}^2$ . No lead was detected in paints in the playground equipment #3. Lead was detected at a concentration of 0.01  $\text{mg}/\text{cm}^2$  at one of the screening locations on the cinderblock wall located behind the play area. The U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, dated July 2012, Action Level for lead in paint is 1  $\text{mg}/\text{cm}^2$ .

Refer to Attachment B, Table 1 for the Lead Paint Field Screening Summary Table.

## 7. Report Prepared By:



Dipanjal Chavan  
Project Team Member, RST 2

Date 12/06/12

## 8. Report Reviewed By:



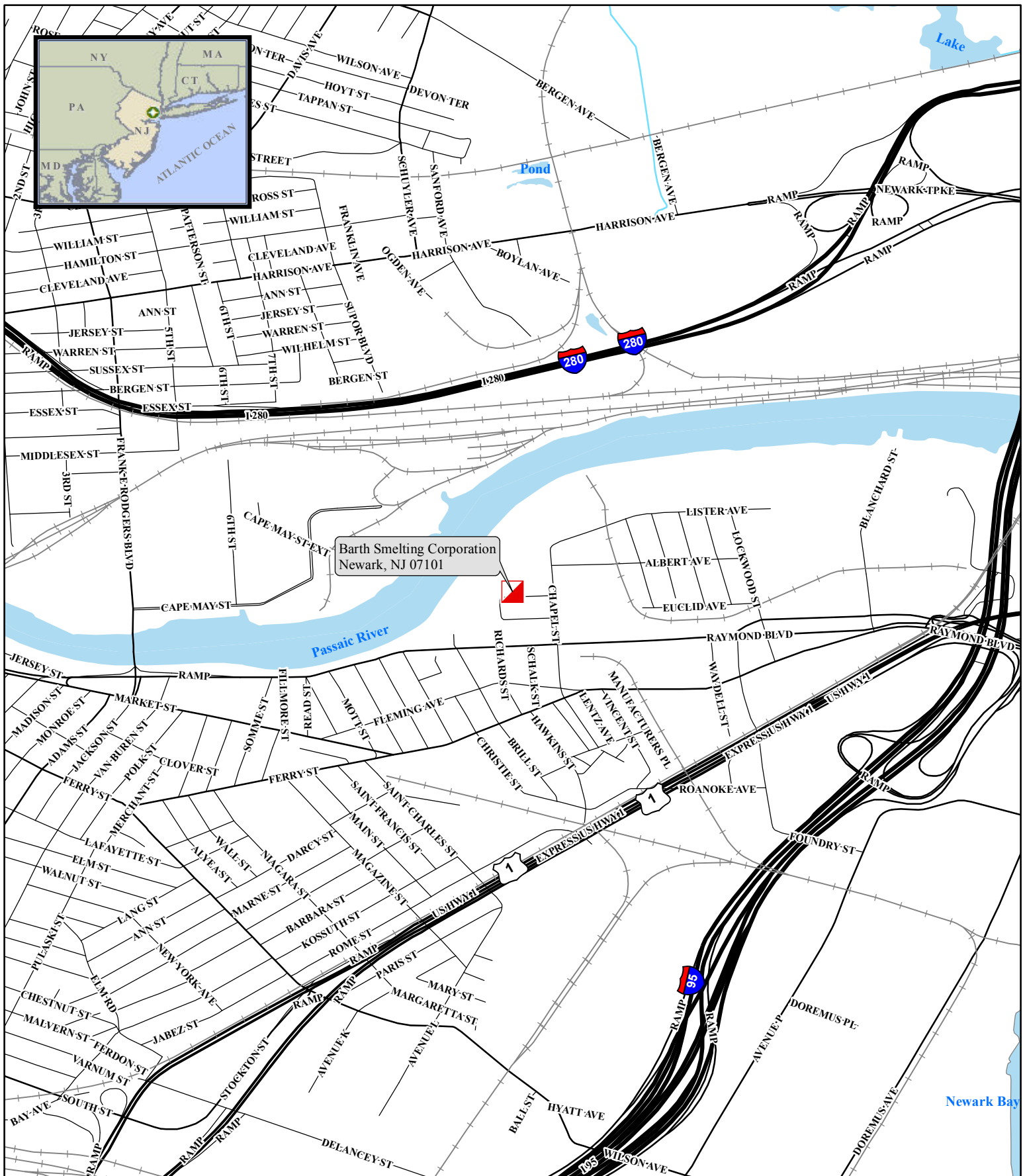
Timothy Benton  
Operations Leader, RST 2

Date 12/6/12

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## **ATTACHMENT A**

- Figure 1: Site Location Map
  - Figure 2: Lead Paint Field Screening Location Map
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## Legend



**Site Location**

0 0.05 0.1 0.2 0.3 0.4  
Miles



**Weston Solutions, Inc.**  
Northeast Division

In Association With  
H & S Environmental, Inc.,  
Scientific and Environmental Associates, Inc.  
and Avatar Environmental, LLC.

## Figure 1 Site Location Map

Barth Smelting Corporation Site  
Newark, New Jersey

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REMOVAL SUPPORT TEAM 2  
CONTRACT # EP-W-06-072

GIS ANALYST: T. BENTON  
EPA OSC: K. STAIGER  
RST SPM: S. SNYDER  
FILENAME: SITEMAP.MXD

DATE MODIFIED: 12/6/2012



## Barth Smelting Corporation Site

Cinderblock Wall

Playground Equip. #1

Playground Equip. #2

Playground Equip. #3

Date	Reading	Location	LPB Result Standard	LPB Concentration (Pb)	Pb +/-
<b>Playground Equipment #1</b>					
12/3/2012	1	Green steps	Negative	0	0
12/3/2012	2	Red railing	Negative	0.05	0.03
12/3/2012	3	Blue pole	Negative	0	0
12/3/2012	4	Spray paint on the sides of the landing (light blue)	Negative	0.19	0.02
<b>Playground Equipment #2</b>					
12/3/2012	5	Red railing	Negative	0.01	0.01
12/3/2012	6	Blue pole	Negative	0	0
12/3/2012	7	Spray paint	Negative	0.18	0.02
<b>Playground Equipment #3</b>					
12/3/2012	8	Red railing	Negative	0	0
12/3/2012	9	Blue pole	Negative	0	0
12/3/2012	10	Spray paint (white)	Negative	0	0
<b>Cinderblock Wall</b>					
12/3/2012	11	Location 1	Negative	0.01	0.01
12/3/2012	12	Location 2	Negative	0	0
12/3/2012	13	Location 3	Negative	0	0

### Legend

Lead Paint Screening Location

0 0.002 0.004 0.008 0.012 0.016 Miles



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Northeast Division

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Scientific and Environmental Associates, Inc.  
and Avatar Environmental, LLC.

### Figure 2: Lead Paint Field Screening Location Map

Barth Smelting Corporation Site  
Newark, New Jersey

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REMOVAL SUPPORT TEAM 2  
CONTRACT # EP-W-06-072

DATE MODIFIED: 12/6/2012  
GIS ANALYST: T. BENTON  
EPA OSC: K. STAIGER  
RST SPM: S. SNYDER  
FILENAME: LEADMAPMXD

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# ATTACHMENT B

- Table 1: Lead Paint Field Screening Summary Table
-

**Table 1**  
**Lead Paint Field Screening Summary Table**  
**Barth Smelting Corporation Site**  
**December 3, 2012**

Date	Reading	Location	LPB Result Standard	LPB Concentration (Pb)	Pb +/-
<b>Playground Equipment #1</b>					
12/3/2012	1	Green steps	Negative	0	0
12/3/2012	2	Red railing	Negative	0.05	0.03
12/3/2012	3	Blue pole	Negative	0	0
12/3/2012	4	Spray paint on the sides of the landing (light blue)	Negative	0.19	0.02
<b>Playground Equipment #2</b>					
12/3/2012	5	Red railing	Negative	0.01	0.01
12/3/2012	6	Blue pole	Negative	0	0
12/3/2012	7	Spray paint	Negative	0.18	0.02
<b>Playground Equipment #3</b>					
12/3/2012	8	Red railing	Negative	0	0
12/3/2012	9	Blue pole	Negative	0	0
12/3/2012	10	Spray paint (white)	Negative	0	0
<b>Cinderblock Wall</b>					
12/3/2012	11	Location 1	Negative	0.01	0.01
12/3/2012	12	Location 2	Negative	0	0
12/3/2012	13	Location 3	Negative	0	0

**Notes:**

All results are in mg/cm<sup>2</sup>.

U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, dated July 2012, Action Level is 1 mg/cm<sup>2</sup>.