

# Brownfield Cleanup Program Application

*Globe Metallurgical Site  
3807 Highland Avenue  
Niagara Falls, New York*

October 2008

0170-001-101



Prepared By:



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**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**BROWNFIELD CLEANUP PROGRAM (BCP)**

ECL ARTICLE 27 / TITLE 14

DEPARTMENT USE ONLY BCP SITE #: _____
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07/07

Section I. Requestor Information					
NAME					
ADDRESS					
CITY/TOWN		ZIP CODE			
PHONE	FAX	E-MAIL			
NAME OF REQUESTOR'S REPRESENTATIVE					
ADDRESS					
CITY/TOWN		ZIP CODE			
PHONE	FAX	E-MAIL			
NAME OF REQUESTOR'S CONSULTANT					
ADDRESS					
CITY/TOWN		ZIP CODE			
PHONE	FAX	E-MAIL			
NAME OF REQUESTOR'S ATTORNEY					
ADDRESS					
CITY/TOWN		ZIP CODE			
PHONE	FAX	E-MAIL			
<p>THE REQUESTOR MUST CERTIFY THAT HE/SHE IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL § 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>PARTICIPANT</b></p> <p>A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>VOLUNTEER</b></p> <p>A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> <p>NOTE: By checking this box, the requestor certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.</p> </td> </tr> </table>				<p><b>PARTICIPANT</b></p> <p>A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p>	<p><b>VOLUNTEER</b></p> <p>A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> <p>NOTE: By checking this box, the requestor certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.</p>
<p><b>PARTICIPANT</b></p> <p>A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p>	<p><b>VOLUNTEER</b></p> <p>A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> <p>NOTE: By checking this box, the requestor certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.</p>				
Requestor Relationship to Property (check one):					
Previous Owner	Current Owner	Potential /Future Purchaser	Other _____		
If requestor is not the site owner, requestor will have access to the property throughout the BCP project.			Yes      No		
(Note: proof of site access must be submitted for non-owners)					

**PROPERTY NAME: 3807 Highland Avenue Site**

ADDRESS/LOCATION **3807 Highland Avenue** CITY/TOWN **Niagara Falls** ZIP CODE **14305**

MUNICIPALITY(IF MORE THAN ONE, LIST ALL): **City of Niagara Falls**

COUNTY **Niagara** SITE SIZE (ACRES) **20.4**

LATITUDE (degrees/minutes/seconds) **43 ° 7 ' 19.89 "** LONGITUDE (degrees/minutes/seconds) **79 ° 2 ' 28.1 "**

HORIZONTAL COLLECTION METHOD:  SURVEY  GPS  MAP HORIZONTAL REFERENCE DATUM: **NAD 27**

FOR EACH PARCEL, FILL OUT THE FOLLOWING TAX MAP INFORMATION (if more than three parcels, attach additional information)

Parcel Address	Parcel No.	Section No.	Block No.	Lot No.	Acrcage
Several Parcels (see Attachment 01 and Figure 2-1)					

1. Do the property boundaries correspond to tax map metes and bounds?  Yes  No

If no, please attach a metes and bounds description of the property.

2. Is the required property map attached to the application? (application will not be processed without map)  Yes  No

3. Is the property part of a designated En-zone pursuant to Tax Law § 21(b)(6)?  Yes  No

For more information go to: [http://www.nylovesbiz.com/BrownField\\_Redevelopment/default.asp](http://www.nylovesbiz.com/BrownField_Redevelopment/default.asp)

If yes, identify area (name) Census Tract #020200

50%  100% of the site is in the En-zone (check one)

PROPERTY DESCRIPTION NARRATIVE:

**See Attachment 01**

List of Existing Easements (type here or attach information)

<u>Easement Holder</u>	<u>Description</u>
Typical utility easements (otherwise unknown)	

List of Permits issued by the NYSDEC or USEPA Relating to the Proposed Site (type here or attach information)

<u>Type</u>	<u>Issuing Agency</u>	<u>Description</u>
PBS #9-120316	NYSDEC	Petroleum Bulk Storage Permit
Title V Air Permit	NYSDEC	

Initials of each Requestor: MJG

### Section III. Current Site Owner/Operator Information

OWNER'S NAME (if different from requestor)

ADDRESS

CITY/TOWN

ZIP CODE

PHONE

FAX

E-MAIL

OPERATOR'S NAME (if different from requestor or owner)

ADDRESS

CITY/TOWN

ZIP CODE

PHONE

FAX

E-MAIL

### Section IV. Requestor Eligibility Information (Please refer to ECL § 27-1407)

If answering "yes" to any of the following questions, please provide an explanation as an attachment.

- |  |     |    |
|--|-----|----|
| 1. Are any enforcement actions pending against the requestor regarding this site?  | Yes | No |
| 2. Is the requestor subject to an existing order relating to contamination at the site?  | Yes | No |
| 3. Is the requestor subject to an outstanding claim by the Spill Fund for this site?   | Yes | No |
| 4. Has the requestor been determined to have violated any provision of ECL Article 27?   | Yes | No |
| 5. Has the requestor previously been denied entry to the BCP?  | Yes | No |
| 6. Has the requestor been found in a civil proceeding to have committed a negligent or intentionally tortious act involving contaminants?  | Yes | No |
| 7. Has the requestor been convicted of a criminal offense that involves a violent felony, fraud, bribery, perjury, theft, or offense against public administration?  | Yes | No |
| 8. Has the requestor knowingly falsified or concealed material facts or knowingly submitted or made use of a false statement in a matter before the Department?  | Yes | No |
| 9. Is the requestor an individual or entity of the type set forth in ECL 27-1407.8(f) that committed an act or failed to act, and such act or failure to act could be the basis for denial of a BCP application? | Yes | No |

### Section V. Property Eligibility Information (Please refer to ECL § 27-1405)

- |  |     |    |
|--|-----|----|
| 1. Is the property listed on the National Priorities List?   | Yes | No |
| 2. Is the property listed on the NYS Registry of Inactive Hazardous Waste Disposal Sites?<br>If yes, please provide: Site # _____ Class # _____  | Yes | No |
| 3. Is the property subject to a permit under ECL Article 27, Title 9, other than an Interim Status facility?<br>If yes, please provide: Permit type: _____ EPA ID Number: _____<br>Date permit issued: _____ Permit expiration date: _____ | Yes | No |
| 4. Is the property subject to a cleanup order under navigation law Article 12 or ECL Article 17 Title 10?<br>If yes, please provide: Order # _____   | Yes | No |
| 5. Is the property subject to a state or federal enforcement action related to hazardous waste or petroleum?<br>If yes, please provide explanation as an attachment.   | Yes | No |

### Section VI. Project Description

What stage is the project starting at?                      investigation                      remediation

Please attach a description of the project which includes the following components:

- Purpose and scope of the project
- Estimated project schedule

## Section VII. Property's Environmental History

To the extent that existing information/studies/reports are available to the requestor, please attach the following:

**1. Environmental Reports**

A phase I environmental site assessment report prepared in accordance with ASTM E 1527 (American Society for Testing and Materials: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process), and all environmental reports related to contaminants on or emanating from the site.

If a final investigation report is included, indicate whether it meets the requirements of ECL Article 27-1415(2):      Yes      No

**2. Sampling Data: Indicate known contaminants and the media which are known to have been affected:**

Contaminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum					
Chlorinated Solvents					
Other VOCs					
SVOCs					
Metals					
Pesticides					
PCBs					
Other*					

\*Please describe: \_\_\_\_\_

**3. Suspected Contaminants: Indicate suspected contaminants and the media which may have been affected:**

Contaminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum					
Chlorinated Solvents					
Other VOCs					
SVOCs					
Metals					
Pesticides					
PCBs					
Other*					

\*Please describe: \_\_\_\_\_

**4. INDICATE KNOWN OR SUSPECTED SOURCES OF CONTAMINANTS:**

Above Ground Pipeline or Tank	Lagoons or Ponds	Underground Pipeline or Tank	Surface Spill or Discharge
Routine Industrial Operations	Dumping or Burial of Wastes	Septic tank/lateral field	Drums or Storage Containers
Adjacent Property	Seepage Pit or Dry Well	Foundry Sand	Electroplating
Coal Gas Manufacture	Industrial Accident	Unknown	

Other: \_\_\_\_\_

**5. INDICATE PAST LAND USES:**

Coal Gas Manufacturing	Manufacturing	Agricultural Co-op	Dry Cleaner	Salvage Yard	Bulk Plant
Pipeline	Service Station	Landfill	Tannery	Electroplating	Unknown

Other: \_\_\_\_\_

**6. Owners**

A list of previous owners with names, last known addresses and telephone numbers (describe requestor's relationship, if any, to each previous owner listed. If no relationship, put "none").

**7. Operators**

A list of previous operators with names, last known addresses and telephone number (describe requestor's relationship, if any, to each previous operator listed. If no relationship, put "none").

**Section VIII. Contact List Information**

Please attach, at a minimum, the names and addresses of the following:

1. The chief executive officer and planning board/dept. chair of each county, city, town and village in which the property is located.
2. Residents, owners, and occupants of the property and properties adjacent to the property.
3. Local news media from which the community typically obtains information.
4. The public water supplier which services the area in which the property is located.
5. Any person who has requested to be placed on the contact list.
6. The administrator of any school or day care facility located on or near the property.
7. The location of a document repository for the project (e.g., local library). In addition, attach a copy of a letter sent to the repository acknowledging that it agrees to act as the document repository for the property.

**Section IX. Land Use Factors (Please refer to ECL § 27-1415(3))**

Current Use:      Residential      Commercial      Industrial      Vacant      Recreational      (check all that apply)

Intended Use:      Unrestricted      Residential      Commercial      Industrial      (check all that apply)

Please check the appropriate box and provide an explanation as an attachment if appropriate. Provide a copy of the local zoning classifications, comprehensive zoning plan designations, and/or current land use approvals.

Yes      No

1. Do current historical and/or recent development patterns support the proposed use? (See #12 below re: discussion of area land uses)

2. Is the proposed use consistent with applicable zoning laws/maps?

3. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, designated Brownfield Opportunity Area plans, other adopted land use plans?

4. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)).

5. Are there any federal or state land use designations relating to this site?

6. Do the population growth patterns and projections support the proposed use?

7. Is the property accessible to existing infrastructure?

8. Are there important cultural resources, including federal or state historic or heritage sites or Native American religious sites within ½ mile?

9. Are there important federal, state or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species within ½ mile?

10. Are there floodplains within ½ mile?

11. Are there any institutional controls currently applicable to the property?

12. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas.

13. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from the property, including proximity to wellhead protection and groundwater recharge areas.

14. Describe on attachment the geography and geology of the site.

**Statement of Certification and Signatures**

(By requestor who is an individual)

I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

(By an requestor other than an individual)

I hereby affirm that I am Environmental (title) of Globe Metallurgical (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: 10/29/2008 Signature: Matthew J. Greene Print Name: Matthew Greene

**SUBMITTAL INFORMATION:**

Three (3) complete copies are required.

- Two (2) copies, one paper copy with original signatures and one electronic copy in Portable Document Format (PDF) on a CD or diskette, must be sent to:

Chief, Site Control Section  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, NY 12233-7020

- One (1) paper copy must be sent to the DEC regional contact in the regional office covering the county in which the site is located. Please check our website for the address of our regional offices: <http://www.dec.ny.gov/about/776.html>

**FOR DEPARTMENT USE ONLY**

BCP SITE T&A CODE: \_\_\_\_\_ LEAD OFFICE: \_\_\_\_\_

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## LIST OF APPLICATION ATTACHMENTS

*NYSDEC Brownfield Cleanup Program Application  
Globe Metallurgical, Inc. – 3807 Highland Avenue Site  
Niagara Falls, New York*

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<b>Attachment No.</b>	<b>Description</b>
1	Site Description, Location Map and Site Plan
2	Tax Map
3	Project Description and Schedule
4	Proposed Redevelopment Plan
5	Phase I Environmental Site Assessment
6	Previous Environmental Investigation
7	Listing of Current and Previous Site Owners
8	Listing of Current and Previous Site Operators
9	Contact List Information
10	Document Repository Confirmation Letter
11	Environmental Factors and Historic Land Use Considerations
12	Nearby Land Use
13	Groundwater Vulnerability Assessment
14	Description of Site Geography/Geology



# ATTACHMENT 01

**SITE DESCRIPTION & BCP ELIGIBILITY STATEMENT**  
**SITE PHOTOGRAPHS**  
**SITE LOCATION MAP**  
**SITE PLAN**

## Attachment 01

### Site Description and BCP Eligibility Statement

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
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#### **A) SITE DESCRIPTION**

The subject property (hereinafter referred to the “Project Site” or the “Site”) subject to this BCP application is an approximate 20.4-acre parcel comprised of 16 tax parcels, commonly referred to as 3807 Highland Avenue, Niagara Falls New York (see Figures 1-1 and 1-2 and the summary table below). The Site to be redeveloped by Globe Metallurgical (Globe) is an approximate 20.4-acre portion of a greater approximate 25-acre property currently owned by Globe. The remaining approximate 5-acre portion of the greater property is subject to a separate BCP application submitted by Solsil, Inc. (see Figure 1-3 for location of Solsil site).

Parcel Address	Parcel No.	Section No.	Block No.	Lot No.	Acreege
Part of 3807 (aka 3801) Highland Ave.	1	130.14	2	41	11.0
4009 Highland Ave.	2	130.14	2	40	0.63
4025 Highland Ave.	3	130.14	2	35	0.31
4002 Hyde Park Blvd.	4	130.15	1	8	0.29
4024 Hyde Park Blvd.	5	130.15	1	17	0.56
1633 Maple Avenue	6	130.14	2	36	0.80
1725 Maple Avenue	7	130.15	1	13	1.61
1911 Maple Avenue	8	130.15	1	6	0.76
1925 Maple Avenue	9	130.15	1	16	0.19
1636 Massachusetts Ave.	10	130.14	2	37	0.28
1622 Massachusetts Ave.	11	130.14	2	39	0.53
1632 Massachusetts Ave.	12	130.14	2	38	0.51
1702 Massachusetts Ave.	13	130.15	1	12	0.20
1724 Massachusetts Ave.	14	130.15	1	11.1	1.40
1914 Massachusetts Ave.	15	130.15	1	15	0.84
1930 Massachusetts Ave.	16	130.15	1	7	0.50
<b>Total Approximate Acreege</b>					<b>20.4</b>

## Attachment 01

### Site Description and BCP Eligibility Statement

**Globe Metallurgical, Inc.  
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The Site is located in a heavily industrialized area of Niagara Falls and is surrounded by current or former heavy industrial sites. The Site includes an office building, a factory/furnace building, and several maintenance and/or storage buildings. The Site is currently vacant and has not been in operation since 2003. The Site was used for heavy industrial manufacturing since at least 1913; most recently the Site was used to manufacture silicon metal and ferrosilicon metal. Site photographs taken during the 2008 Phase I Environmental Site Assessment are attached hereto.

The Site's historical (i.e., approximately 100 years) heavy industrial manufacturing use has left a legacy of environmental concerns, including abandoned drums with unknown contents, historic petroleum storage tanks, obvious petroleum spills on the property, generation of regulated wastes, and an inactive landfill on-site. Multiple aboveground storage tanks (ASTs) remain on the Site, including those in the Oil House labeled as gasoline, fuel oil, diesel, waste oil, transmission oil, and new oil. A 10,000-gallon diesel AST is located adjacent to the Furnace Building. Approximately 100, 55-gallon drums with unknown contents are currently present in the Oil House and adjacent storage building. Petroleum staining was noted in the Oil House and adjacent to the Maintenance Building. Parts washing stations were noted in the Maintenance Building; such washing stations typically utilize chlorinated solvents. Potential polychlorinated biphenyls (PCB)-containing electrical equipment/ transformers are present on-site. A large soil-debris pile is present in the eastern portion of the property (adjacent to the Duct House); the source of the soil pile is not known. In addition, the elevated area in the northeast portion of the Site adjacent to Maple Avenue is reportedly a former waste deposit area. Other areas of concern as summarized in the Phase I ESA include former machine shops, former transformer rooms, current/former electrical substations, a 20,000-gallon closed-in-place diesel underground storage tank (UST), former gasoline and waste oil USTs, former waste battery storage area, and a former smoke stack (#2). Figure 1-3 illustrates the areas of concern for the Site.

As described in [Attachment 6](#) as attached hereto, soil and sediment samples taken at the Project Site during a limited preliminary Site Investigation in the summer of 2008 indicate that certain polycyclic aromatic hydrocarbons PAHs and metals are present on-site at concentrations above the NYSDEC 375 restricted-industrial soil cleanup objectives (SCOs) and/or at concentrations that may deem soil/sediments characteristically hazardous upon removal and disposal. Based on the results of the preliminary investigation, a comprehensive subsurface soil, surface soil, sediment and groundwater investigation is warranted to further characterize the full extent of environmental impacts.

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**Globe Metallurgical, Inc.  
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Environmental investigations completed on the adjacent Hazorb/Niagara Vest/Union Carbide Brownfield Cleanup Program (BCP) site identified the presence of PCBs, PAHs, and metals above the NYSDEC Part 375 restricted-industrial SCOs in soil/fill and debris, as well as the presence of asbestos containing material (ACM) and PCBs (galbestos) along College Avenue. Based on the similar nature of historic heavy industrial use on the adjacent property, similar contaminants of concern could be present at the Project Site.

The Site is bounded by Highland Avenue to the west, College Avenue to the south, Maple Avenue to the north, and Hyde Park Boulevard to the east (northeastern portion). Properties adjacent to the Site include several heavy industrial properties, including Schleifmittel-Treibacher (former General Abrasives) to the east, PreMax (former Chisholm-Ryder) to the west and the former Hazorb/Niagara Vest/Union Carbide BCP site to the south.

#### **B) ELIGIBILITY FOR ACCEPTANCE INTO THE BROWNFIELD CLEANUP PROGRAM**

The Site meets the definition of a “brownfield site” as set forth in New York State Environmental Conservation Law Section 27-1407.8.a, in that (A) there is confirmed contamination on the Site, and (B) there is a reasonable basis to believe that the contamination or potential presence of contamination may be complicating the development or re-use of the Site. Further, the regulations in 6 NYCRR 375-3.3(a)(1) clarify that the brownfield definition has two separate and distinct elements; namely the “Contamination Element” and the “Complication Element”:

- (1) A brownfield site has two elements:
  - (i) there must be confirmed contamination on the property or a reasonable basis to believe that contamination is likely to be present on the property; and
  - (ii) there must be a reasonable basis to believe that the contamination or potential presence of contamination may be complicating the development, use or re-use of the property.

As noted in the text of this regulation, the concept of a “reasonable basis” test has been added to each element.

## Attachment 01

### Site Description and BCP Eligibility Statement

**Globe Metallurgical, Inc.  
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Finally, the New York State Department of Environmental Conservation published BCP Eligibility Guidance in March 2005. This guidance establishes several factors that the Department considers in evaluating whether the Contamination Element and the Complication Element exist.

#### A) Contamination Element

Specifically, with respect to the establishing the Contamination Element or a reasonable basis to believe the Contamination Element has been met, the DEC will consider the:

- (A) the nature and extent of known or suspected contamination;
- (B) whether contaminants are present at levels that exceed standards, criteria or guidance;
- (C) whether contamination on the proposed site is historic fill material or exceeds background levels;
- (D) whether there are or were industrial or commercial operations at the proposed site which may have resulted in environmental contamination; and/or,
- (E) whether the proposed site has previously been subject to closure, a removal action, an interim or final remedial action, corrective action or any other cleanup activities performed by or under the oversight of the State or Federal government.

As describe within this BCP application, we respectfully submit that the Contamination Element of the BCP Eligibility Test has been met. Contamination does exist on the Site, and there is a reasonable basis to believe that additional contamination above and beyond what is known to exist on the Site to date may be present on this Site. As described in Attachment 6 as attached hereto, soil and sediment samples taken at the Project Site during a limited preliminary Site Investigation in the summer of 2008 indicate that certain polycyclic aromatic hydrocarbons PAHs and metals are present on-site at concentrations above the NYSDEC 375 restricted-industrial SCOs and/or at concentrations that may deem soil/sediments characteristically hazardous upon removal and disposal. The contamination on the site is not historic fill and does exceed background levels especially as evidenced by the Site's 100 year history of heavy industrial manufacturing use. The legacy of such heavy

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use, as visually described above and throughout this application, certainly indicates that such use resulted in its environmental contamination.

#### B) Complication Element

Specifically, with respect to the establishing the Complication Element or a reasonable basis to believe the Complication Element has been met, the DEC will consider:

- (A) whether the proposed site is idled, abandoned or underutilized;
- (B) whether the proposed site is unattractive for redevelopment or reuse due to the presence or reasonable perception of contamination;
- (C) whether properties in the immediate vicinity of the proposed site show indicators of economic distress such as high commercial vacancy rates or depressed property values; and/or
- (D) whether the estimated cost of any necessary remedial program is likely to be significant in comparison to the anticipated value of the proposed site as redeveloped or reused.

As described within this BCP application, it is respectfully submitted that there is a reasonable basis to believe that the contamination known and suspected to be present on the Site is complicating the development, use or re-use, of the Site. First, the Site, suspected to be contaminated, has sat idled, abandoned and underutilized since 2003. The Site is unattractive for redevelopment or reuse due to the actual presence of contamination and the reasonable perception that there is additional contamination most likely present on the Site also in need of remediation. As noted in the Phase I Environmental Assessment dated September 2008, there are multiple aboveground storage tanks and petroleum staining has been noted within certain areas of the Site. The Site is located in a current and historic heavy industrial area. Surrounding sites include active and abandoned industrial properties, including the former Hazorb/Niagara Vest/Union Carbide Brownfield Cleanup Program site to the south, and regulatory searches have revealed documented releases or potential releases of hazardous materials and/or petroleum products on nearby properties. Many known contaminated sites are in close proximity to the Site.

In addition, the Site and the properties in the immediate vicinity of the Site are in an area exhibiting indicators of extreme economic distress. For example, as of August, 2008, according to statistics provided by the New York State Department of Labor, Niagara

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County had the third highest county unemployment rate in the State of New York – 6.7%. In general, the Western New York Economic Development Region had the second highest overall unemployment rate in the State, 5.9%, second only to the North Country region. With the decline of industrial activity in Niagara Falls over the last four decades, the City has been left with a large collection of abandoned contaminated sites that cannot be remediated easily or quickly. The majority of these contaminated sites, such as the Project Site, will most likely continue to adversely affect the public health, welfare, and the environment, continue to further depress real estate values, and otherwise negatively affect the area. The general economic duress of the Project Site and the neighboring area, combined with known contamination issues affecting the Project Site, provide a dual complicating affect chilling any redevelopment opportunities of the Site.

The Site is located in a BCP Environmental Zone, a New York State Empire Zone, a New York State Brownfield Opportunity Area nomination site, a Federal Renewal Community Zone, and a “highly distressed area” as defined under New York General Municipal Law as it has a poverty rate (50%) of at least 20% and an unemployment rate (15%) at least 1.25% times the statewide unemployment rate (currently 5.6%). Because the site is located in these various designated distressed areas, it is eligible for certain local, state, and federal financial incentives, further indicating that the Site is unattractive for redevelopment particularly outside of the context of the BCP.

The estimated cost of a proposed remedial program with regard to the Site is likely to be significant in comparison to the anticipate value of the Site as redeveloped or reused. This has likely been one of the reasons behind the Site’s vacancy. As described herein, and based on the result of the September 2008 Preliminary Investigation, a comprehensive subsurface soil, surface soil, sediment and groundwater investigation is warranted to characterize the full extent of environmental impacts. The Applicant proposes to remediate contaminated conditions, in addition to making approximately \$20,000,000 in capital investment. However, the extent of contamination is unknown and remediation costs are unknown and may significantly add to, or outpace, the capital expenditures the Requestor plans to undertake at the Site, depending upon the extent of the remediation required to be undertaken at the Site.

In conclusion, based on the foregoing and as discussed and depicted within the BCP application, the Site meets the Contamination Element and the Complicaton Element tests. As such, the Site qualifies as a Brownfield Site eligible for participation in the BCP because

**Attachment 01**

**Site Description and BCP Eligibility Statement**

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(A) there is confirmed contamination on the Site, and (B) there is a reasonable basis to believe that the contamination or potential presence of contamination may be complicating the development or re-use of the Site.



Attachment 01

Site Photographs

Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
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Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: Exterior of Subject Property

Photo 2: Exterior of Subject Property

Photo 3: Electrical substation

Photo 4: Exterior conditions



0170-001-101

Photo Dates: July 15 & August 18, 2008

Attachment 01

Site Photographs

Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application

Photo 5:



Photo 6:



Photo 7:



Photo 8:



- Photo 5: AST/drums in Oil House
- Photo 6: 10,000-gallon AST (adjacent to furnace building)
- Photo 7: Drum/container storage and stained floor
- Photo 8: Brine AST (former fuel oil)



0170-001-101

Photo Dates: July 15 & August 18, 2008

# Attachment 01

## Site Photographs

### Globe Metallurgical, Inc. 3807 Highland Avenue Site Brownfield Cleanup Program Application

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: Discarded Tar material

Photo 10: Discolored soil mixed with miscellaneous debris

Photo 11: Soil/Debris piles

Photo 12: Soil/Debris piles



0170-001-101

Photo Dates: July 15 and October 1, 2008

Attachment 01

Site Photographs

Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application

Photo 13:



Photo 14:



Photo 15:



Photo 16:



Photo 13: Bulging drums in storage building

Photo 14: Extensive staining in the Oil House building

Photo 15: Unknown chemicals in the former laboratory

Photo 16 Former factory building



0170-001-101

Photo Dates: July 15 and October 1, 2008

Attachment 01

Site Photographs

Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application

Photo 17:



Photo 18:



Photo 19:



Photo 17: Subject Property and adjacent industrial properties to the west, south, and east

Photo 18: Adjacent former Union Carbide facility to the south

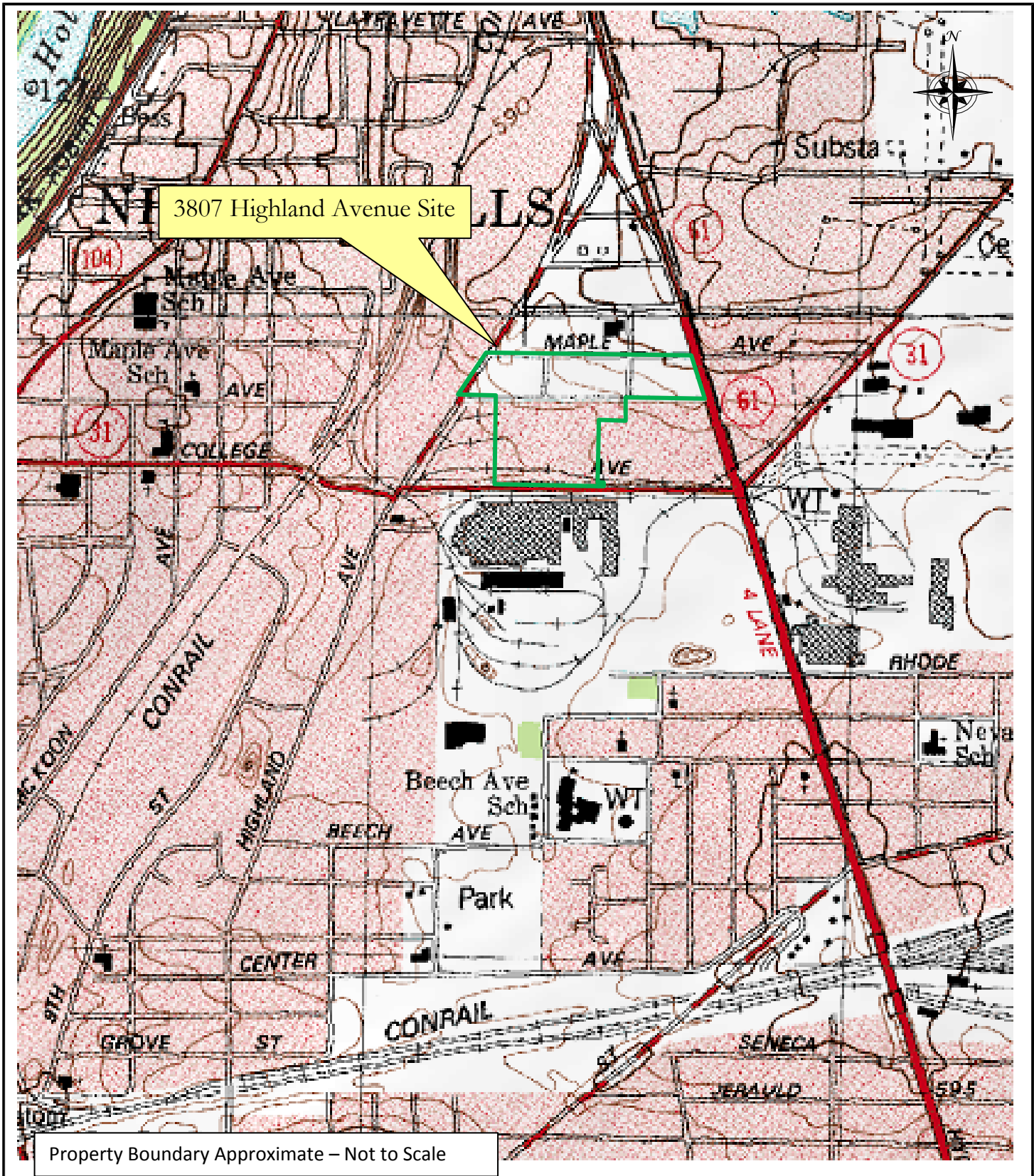
Photo 19: Adjacent former Union Carbide facility to the south



0170-001-101

Photo Dates: July 15 & August 18, 2008

FIGURE 1-1



726 EXCHANGE STREET  
SUITE 624  
BUFFALO, NEW YORK 14210  
(716) 856-0599

### SITE LOCATION AND VICINITY MAP BROWNFIELD CLEANUP PROGRAM APPLICATION

3807 HIGHLAND AVENUE SITE

NIAGARA FALLS, NEW YORK

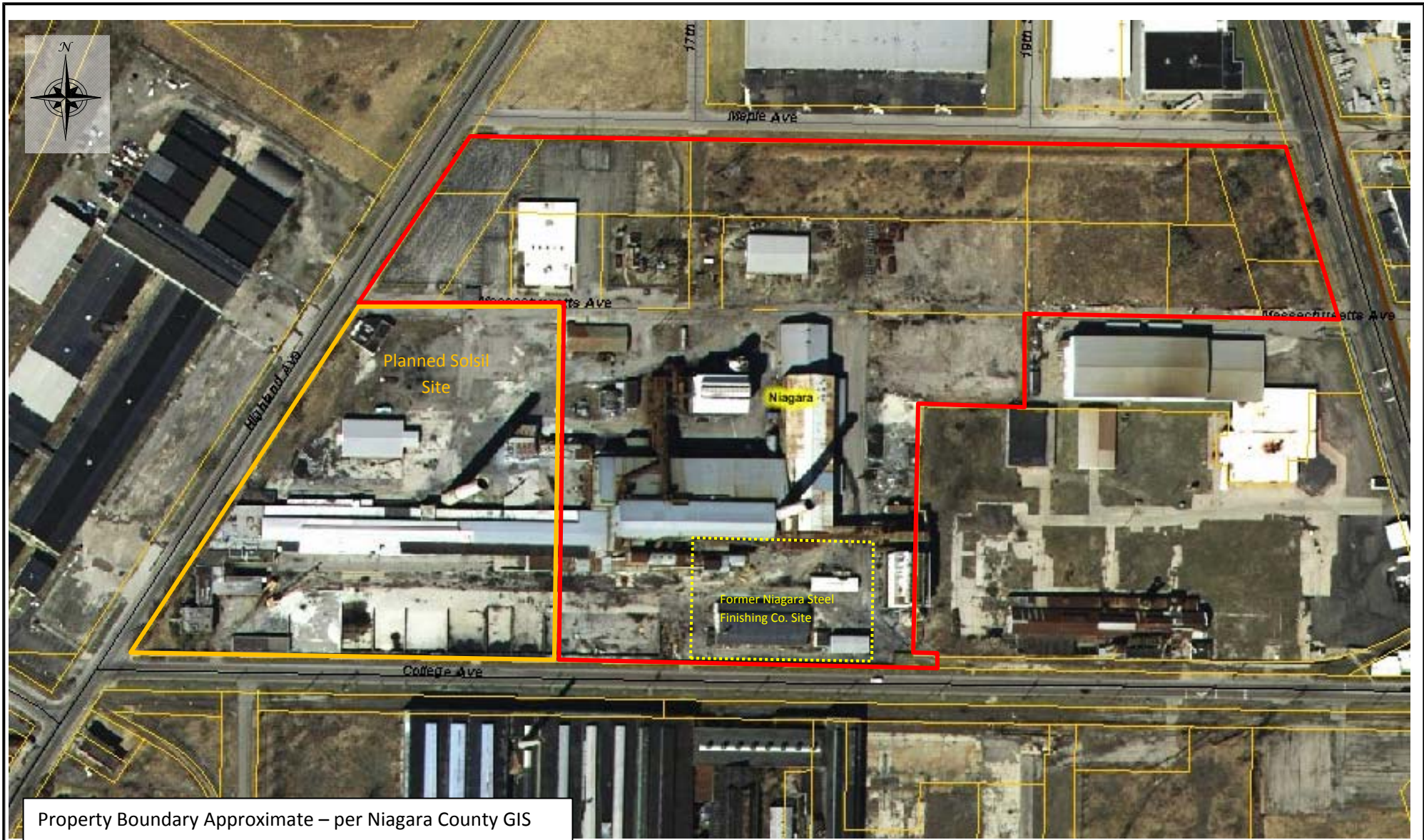
PREPARED FOR

GLOBE METALLURGICAL, INC.

PROJECT NO.: 0170-001-101

DATE: SEPTEMBER 2008

DRAFTED BY: NTM



726 EXCHANGE STREET  
 SUITE 624  
 BUFFALO, NEW YORK 14210  
 (716) 856-0599

PROJECT NO.: 0170-001-101

DATE: SEPTEMBER 2008

DRAFTED BY: NTM

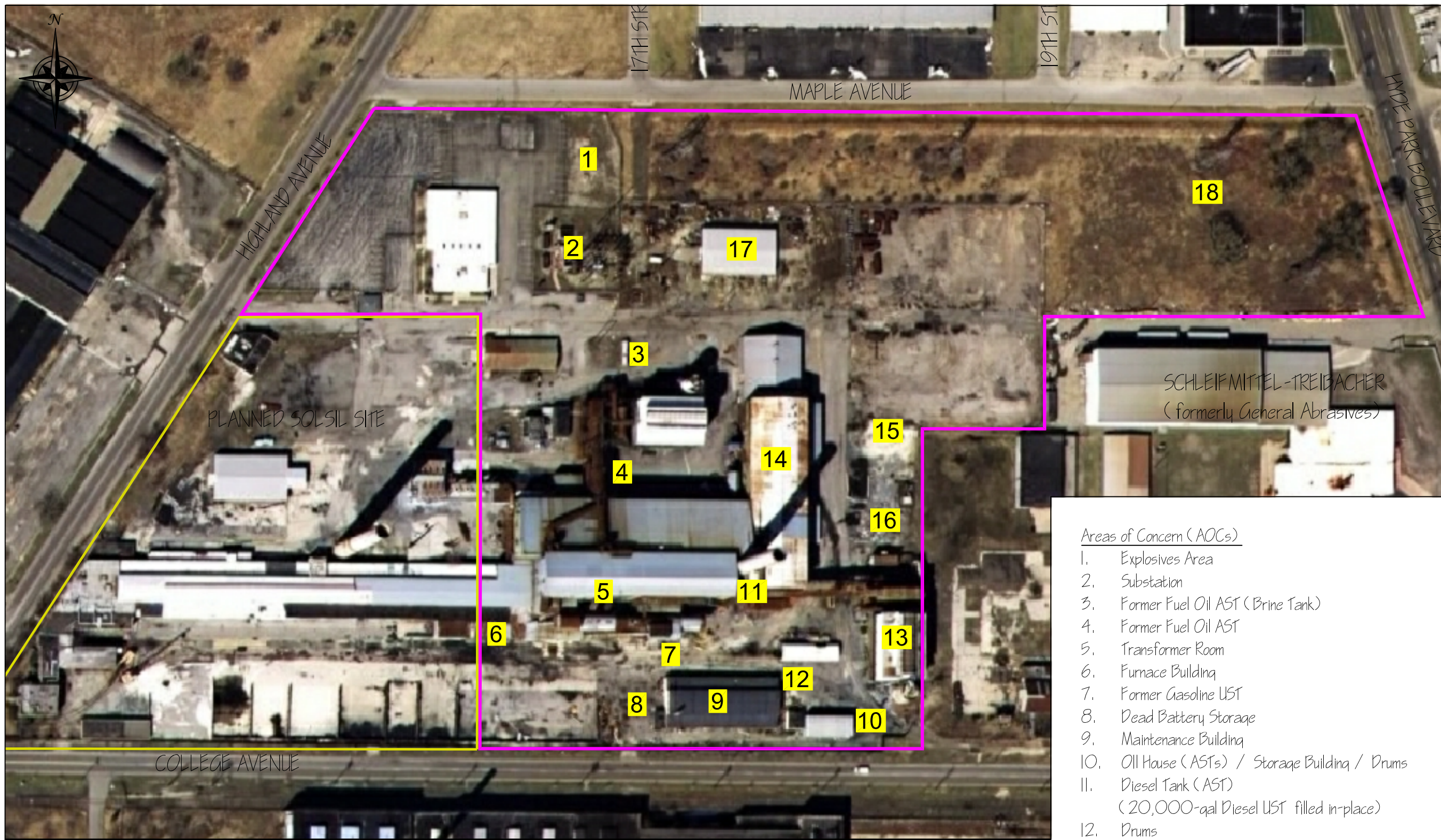
**SITE PLAN**  
 BROWNFIELD CLEANUP PROGRAM APPLICATION

3807 HIGHLAND AVENUE SITE

NIAGARA FALLS, NEW YORK  
 PREPARED FOR  
 GLOBE METALLURGICAL, INC.

**FIGURE 1-2**

FILEPATH:



**LEGEND:**

- PROPERTY BOUNDARY
- 9 AREA OF CONCERN

Note: Drawing not to scale.

Areas of Concern (AOCs)

1. Explosives Area
2. Substation
3. Former Fuel Oil AST (Brine Tank)
4. Former Fuel Oil AST
5. Transformer Room
6. Furnace Building
7. Former Gasoline UST
8. Dead Battery Storage
9. Maintenance Building
10. Oil House (ASTs) / Storage Building / Drums  
(20,000-gal Diesel UST filled in-place)
11. Diesel Tank (AST)
12. Drums
13. Dust Collector
14. Factory Building / Furnace
15. Substation
16. Debris Pile
17. Steel Turnings Building
18. Elevated Area / Former SKW Alloys Disposal Area



# ATTACHMENT 02

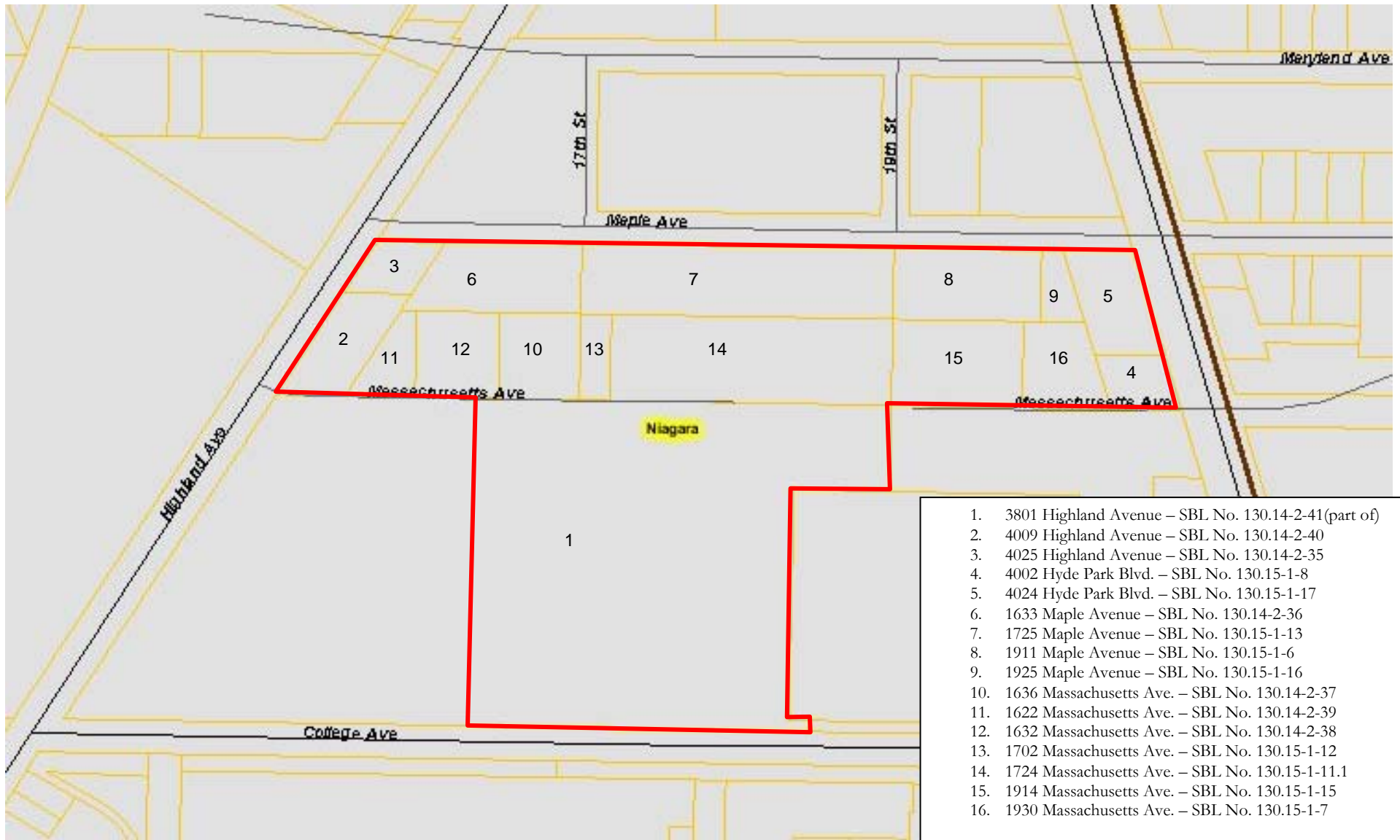
## TAX MAP

## Attachment 02

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

### **METES AND BOUNDS DESCRIPTION**

The Project Site is comprised of 16 tax parcels as illustrated on Figure 2-1 attached. As the Site is in the process of being re-parceled for the Globe Metallurgical, Inc. project and the planned Solsil, Inc. project an updated metes and bounds description is not yet available. The metes and bounds description of the Project Site will be provided to the NYSDEC upon completion.



1. 3801 Highland Avenue – SBL No. 130.14-2-41(part of)
2. 4009 Highland Avenue – SBL No. 130.14-2-40
3. 4025 Highland Avenue – SBL No. 130.14-2-35
4. 4002 Hyde Park Blvd. – SBL No. 130.15-1-8
5. 4024 Hyde Park Blvd. – SBL No. 130.15-1-17
6. 1633 Maple Avenue – SBL No. 130.14-2-36
7. 1725 Maple Avenue – SBL No. 130.15-1-13
8. 1911 Maple Avenue – SBL No. 130.15-1-6
9. 1925 Maple Avenue – SBL No. 130.15-1-16
10. 1636 Massachusetts Ave. – SBL No. 130.14-2-37
11. 1622 Massachusetts Ave. – SBL No. 130.14-2-39
12. 1632 Massachusetts Ave. – SBL No. 130.14-2-38
13. 1702 Massachusetts Ave. – SBL No. 130.15-1-12
14. 1724 Massachusetts Ave. – SBL No. 130.15-1-11.1
15. 1914 Massachusetts Ave. – SBL No. 130.15-1-15
16. 1930 Massachusetts Ave. – SBL No. 130.15-1-7



726 EXCHANGE STREET  
 SUITE 624  
 BUFFALO, NEW YORK 14210  
 (716) 856-0599

PROJECT NO.: 0170-001-101

DATE: SEPTEMBER 2008

DRAFTED BY: NTM

FILEPATH:

## TAX MAP

### BROWNFIELD CLEANUP PROGRAM APPLICATION

3807 HIGHLAND AVENUE SITE

NIAGARA FALLS, NEW YORK  
 PREPARED FOR  
 GLOBE METALLURGICAL, INC.

FIGURE 2-1

# ATTACHMENT 03

## PROJECT DESCRIPTION & SCHEDULE

## Attachment 03

### Project Description & Schedule

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

#### **PROJECT DESCRIPTION**

The Project Site is located in the City of Niagara Falls, Niagara County, New York. It consists of approximately 20.4 acres and contains a former office building, a former factory/furnace building, and several former maintenance and/or storage buildings. The Site was used for heavy industrial manufacturing since at least 1913; most recently the Site was used to manufacture silicon metal and ferrosilicon metal. The Site is currently vacant and has not been in operation since 2003.

The Project Site is located within the City of Niagara Falls Highland Area Redevelopment Plan (the “Plan”) area. The Plan seeks to create an environment attractive to new private investment and proposes a series of improvements to the area’s street, rail and pedestrian networks. Specifically, the Plan calls for creating a modern, clean, “green” business campus in the vicinity of the Project Site. The Project Site is currently vacant, depressing real estate values, and contamination concerns have precluded reuse. These conditions contribute to neighborhood disinvestment and decline.

Globe Metallurgical, Inc., (the “Applicant”) currently owns the property and plans to remediate, construct new facilities and refurbish/redevelop the vacant factory buildings to manufacture metallurgical and chemical-grade silicon metal and silicon-based specialty alloys. The Applicant currently operates successful manufacturing plants in the U.S. (i.e., Ohio, West Virginia, and Alabama), Brazil, and Argentina.

The Applicant anticipates an investment of approximately \$20 million in redevelopment to bring the property back into productive re-use. It is anticipated that approximately 80 new full-time jobs will be created within the first year of operation.

The Project Site is also located within a Federal Renewal Community Zone, a New York State Empire Zone, a New York State Environmental Zone, and a “highly distressed area” as defined under New York General Municipal Law as it has a poverty rate (50%) of at least 20% and an unemployment rate (15%) at least 1.25% times the statewide unemployment rate (which is approximately 7%). As such, the Project Site is located in both a Federal and New York State defined and delineated distressed urban community.

It is important to note that this project has only been made financially possible because of the tax benefits that potentially may be available to the Applicant under the New York State

## Attachment 03

### Project Description & Schedule

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

Brownfield Cleanup Program, the New York State Empire Zone Program, and other benefits to be made available to the applicant by the Niagara County Industrial Development Agency, and by the environmental liability protection afforded to the Applicant under the New York State Brownfield Cleanup Program.

Subsequent to submittal of this BCP application, the Applicant will submit a Remedial Investigation/Interim Remedial Measures (RI/IRM) Work Plan to investigate constituents of concern, to fully characterize the impacts to environmental media (i.e., soil and groundwater) and to immediately address known areas of impact (e.g., abandoned drums, liquid wastes in ASTs, petroleum surface spills). The RI will include advancement of soil borings and collection of soil samples; installation and sampling of groundwater monitoring wells; and sampling and cataloging of storage tanks, drums, and containers. Known areas of concern, and any areas of environmental contamination identified during the RI that can be immediately addressed to protect human health and the environment, will be completed under an IRM approach. Long term remediation and environmental Site management requirements will be evaluated in an Alternatives Analysis Report (AAR), which will be submitted concurrently with the RI/IRM report.

#### **PROJECT SCHEDULE**

The environmental engineering and consulting tasks associated with the Brownfield Cleanup Program (BCP) through the completion of RI/IRM activities are estimated as follows:

October 2008 – Submit BCP application and RI/IRM Work Plan  
December 2008 – Obtain notification of BCP program acceptance  
December-March 2008 – Complete RI/IRM activities  
April 2009 – Submit RI/IRM/AAR report, Final Engineering Report and Site Management Plan

# ATTACHMENT 04

## REDEVELOPMENT PLAN MAP

(To Be Determined)

# ATTACHMENT 05

## PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT (INCLUDED ELECTRONICALLY)

Benchmark Environmental Engineering & Science, PLLC. 2008. *Phase I Environmental Site Assessment Report, 3807 Highland Avenue, Niagara Falls, New York*. September.



## Attachment 05

### Phase I Environmental Site Assessment

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

A summary of the Phase I ESA that was completed for the Site is presented below. The Phase I ESA report is provided on the attached CD.

#### **September 2008 – Phase I Environmental Site Assessment**

A Phase I Environmental Site Assessment (ESA) of the subject property identified several recognized environmental conditions (RECs), which are described below:

- The Site is a former heavy industrial Site that was used for industrial purposes for approximately 100 years. There are numerous areas of concern on-site, including: a railcar maintenance building, maintenance buildings/areas, machine shops, a former electric shop, current and former oil houses, a former laboratory, former transformer rooms, a factory/furnace building, a waste battery storage area, an explosives area, AST areas, drum storage areas, transformers and electrical substations, and former UST areas.
- The Site is located in a current and historic heavy industrial area. Surrounding sites include active and abandoned heavy industrial properties, such as the former Hazorb/Niagara Vest/Union Carbide Brownfield Cleanup Program site to the south.
- Regulatory search information for the Site indicates historic petroleum storage, petroleum spills, generation of regulated wastes, and an inactive landfill. Several adjacent and nearby properties have documented releases or potential releases of hazardous material and/or petroleum products.

# ATTACHMENT 06

## PREVIOUS ENVIRONMENTAL INVESTIGATION

September 23, 2008

Mr. Matthew Greene  
Globe Metallurgical, Inc.  
1595 Sparling Road  
PO Box 157  
Beverly, OH 45715

Re: Preliminary Site Investigation  
Globe Metallurgical and Solsil, Inc. Site  
3807 Highland Avenue, Niagara Falls NY

Dear Mr. Greene:

At your request, Benchmark Environmental Engineering and Science, PLLC (Benchmark) has completed a Preliminary Site Investigation for the property addressed at 3807 Highland Avenue, Niagara Falls, New York (see Figure 1). It should be noted this investigation was completed to evaluate the Globe Metallurgical, Inc. redevelopment site (Globe Site) as well as the Solsil, Inc. redevelopment site (Solsil Site).

A description of our approach to the work and the investigation findings are presented below. Areas investigated and discussed within this report are identified on Figure 1.

#### **BACKGROUND**

Benchmark performed a Phase I Environmental Site Assessment (ESA) for the subject property that encompasses the Globe Site and Solsil Site in August 2008. The ESA identified several recognized environmental conditions (RECs) related to historic industrial manufacturing, including multiple current and historical underground storage tanks (USTs) and aboveground storage tanks (ASTs), numerous drums, maintenance/repair buildings, former oil houses, former transformer rooms, current/former electrical substations, a former waste battery storage area, and a former smoke stack. Based on the findings of the Phase I ESA, Benchmark recommended a Preliminary Site Investigation to evaluate whether historical operations impacted the site and potentially interfere with future redevelopment efforts.

#### **PRELIMINARY SITE INVESTIGATION**

The Investigation generally included the following activities:

- Completion of a soil investigation in select areas of the Site. The soil investigation included soil borings to evaluate potential impacts associated with past heavy industrial operations, and to provide general characterization of the property.

- Collection and analyses of soil samples to determine if impacts, if identified, were present above current New York State Department of Environmental Conservation (NYSDEC) soil cleanup objectives (SCOs).

Installation of temporary monitoring wells and collection of groundwater samples to evaluate groundwater quality was a planned task; however, construction of temporary monitoring wells to the required depth(s) to collect representative groundwater samples was not able to be accomplished using a direct-push drill rig. As such, groundwater samples were not collected during this investigation.

Additional limitations to this investigation were encountered due to installation of utility lines at the Globe Site as well as Globe's request to avoid intrusive work within interior areas. Furthermore, at Globe's request, soil borings could only be completed in areas that were pre-cleared by Globe's utility location contractor prior to intrusive work. Specifically, areas of concern that were not accessible include the factory buildings (including machine shops and transformer rooms), the former oil house where numerous drums, ASTs and surface staining were identified, the area of a suspect vent pipe proximate the oil house, the former 10,000-gallon diesel AST, and subsurface areas beneath existing buildings.

## METHODS

The soil investigation involved completion of a soil boring investigation program under the direction of Benchmark's environmental scientist, Mr. Nathan Munley. On August 27, 2008, Benchmark's designated subcontractor, TREC Environmental, mobilized a track-mounted Geoprobe® rig, and completed 11 soil borings, identified as SB-1 through SB-11, at various locations across the Site. Soil samples were collected with an approximate 1.5-inch diameter, approximate 48 inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12 to 14 feet below the ground surface (fbgs), or until equipment refusal was encountered.

Soil borings SB-1, SB-2, SB-3, surface sample SS-1 and sediment sample STACK-1 were completed on the Solsil Site. Soil borings SB-4 through SB-11 and surface samples SS-2 through SS-4 were completed on the Globe Site. Soil boring and sample locations are shown on Figure 1.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method). Field screening of soil borings for total VOC concentrations was completed using a photoionization detector (PID). PID measurements were recorded in the project field book and are summarized in Table 1.

Representative soil samples were collected from SS-1 through SS-4, STACK-1, and SB-1 through SB-11 for analysis. Specifically, samples were collected and placed in pre-cleaned, laboratory provided sample bottles using dedicated stainless steel sampling tools, and cooled to 4° C in the field, and transported under chain-of-custody command to TestAmerica of

Amherst, New York for analysis. Select samples were analyzed for Target Compound List (TCL) plus NYSDEC Spill Technology and Remediation Series (STARS) List volatile organic compounds (VOCs), STARS List semi-volatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) Metals, and polychlorinated biphenyls (PCBs).

## FIELD OBSERVATIONS

### Globe Site

Soil borings SB-4 through SB-11 and surface samples SS-2 through SS-4 were completed on the Globe Site.

The subsurface geology on the Globe Site was similar to that of the Solsil Site as described above. Similar non-native materials (i.e., ash, coal/coke, slag-like fill, apparent metallic materials) were also noted in the surface of the southeast portion of the Globe Site proximate the factory buildings.

The northeast portion of the Globe site is a reported historic deposit area/landfill. Soil borings SB-10 and SB-11 were advanced in that area of the Globe Site, which is generally characterized as an elevated area of the property with vegetative cover. Soils in this portion of the site were described as a loose silty-sand from the ground surface to approximately one fbg, with fill-like materials including brick, slag, wood, and rust-colored and gray to black-colored miscellaneous fill to boring terminus (i.e., 8 fbgs at SB-10 and 12 fbgs at SB-11). In the north portion of the Site along the western limits of the former deposit area, gray and green cobbles and boulder-like pieces of consolidated non-native material were noted deposited on the ground surface. The source of that material is not known.

Groundwater was encountered at approximately 12 fbgs on SB-6. A temporary monitoring well was installed at SB-6, but water production was insufficient for sample collection on the day of installation and during subsequent site visits. As such, a groundwater sample was not collected.

A sheen was noted on the core sampler sleeve at SB-6, between 10 – 14 fbgs. Non-native materials (i.e., ash, coal/coke, slag-like fill, apparent metallic materials), similar to those noted on the Solsil Site, were also noted in the surface soils across the southeast portion of the Globe Site proximate the factory buildings. As noted above, gray and green cobbles and boulder-like pieces of consolidated material were noted deposited on the ground surface in the northern area of the Globe Site. Furthermore, tar-like material was noted on the ground surface in the same general area of the Site.

PID readings at the Globe Site ranged from 0 ppm to 88.3 ppm. The highest PID readings were 68.7 ppm at SB-6 (12-14 fbgs) and 88.3 ppm at SB-11 (8-10 fbgs). Petroleum odors were also noted in B-6 from 10 to 14 fbgs. Refer to Table 1 for a summary of PID readings.

### Solsil Site

Soil borings SB-1, SB-2, SB-3, surface sample SS-1 and sediment sample STACK-1 were completed on the Solsil Site.

In general, the geology of the Solsil Site is described as asphalt, concrete or non-native unconsolidated soil/fill surficial layer, including evidence of ash, coal/coke, slag-like fill, apparent metallic materials, from the ground surface to approximately one foot below ground surface (fbgs) overlaying fill-like material consisting of brick, slag, concrete, and/or wood to approximately two fbgs. Apparent native materials, consisting of brown, silty-clay was encountered at each boring location from approximately 2 fbgs to boring terminus (up to 14 fbgs).

Groundwater was encountered at approximately 7-8 fbgs at boring location SB-1 in the area of the former railcar maintenance building and current location of drums and petroleum staining. The boring was terminated at 8 fbgs where equipment refusal encountered. A temporary monitoring well was installed in an attempt to collect groundwater, but water production was insufficient for sample collection on the day of installation as well as on subsequent site visits. As such, a groundwater sample was not collected.

Visual evidence of petroleum staining was noted within the former railcar maintenance building in the area where sample SS-1 was collected. Non-native materials (i.e., ash, coal/coke, slag-like fill, apparent metallic materials) were noted across the majority of the surface of the Solsil Site that was not covered by buildings. Gray to dark black ash and silty material, with prominent metallic material intermixed, was noted within and around the former stack located on the north side of the factory building on the Solsil Site. A sample designated as STACK-1 was collected to characterize that material.

PID readings ranged from 23.8 parts per million (ppm) to 533 ppm in the borings completed at the Solsil Site. The highest readings from each soil boring were 283 ppm at SB-1 (6-8 fbgs), 533 ppm at SB-2 (4-8 fbgs) and 201 ppm at SB-3 (0-2 fbgs) Refer to Table 1 for a summary of PID readings. Odors were also noted in boring location SB-2, which was advanced in the area of a former oil house.

### **SAMPLING AND ANALYSIS**

Representative soil samples were collected from SS-1, STACK-1, and SB-1 through SB-3 at the Solsil Site and from SB-4 through SB-11 and surface samples SS-2 through SS-4 from the Globe Site. Select samples were analyzed for VOCs, SVOCs, metals and/or PCBs. Elevated concentrations of VOCs, SVOCs, metals and PCBs were detected in most of the soil boring locations, including some SVOC and metal analytes above Part 375 Restricted-Industrial SCOs. The analytical results are presented on Table 2 and further discussed below. The analytical data package is included in Attachment 1.

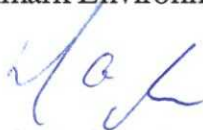
## SUMMARY AND CONCLUSIONS

- Arsenic was detected at 666 ppm, well above its Industrial SCO of 16 ppm, in the sample collected from STACK-1. Other metals detected in that sample included barium (1,250 ppm), cadmium (30 ppm) and lead (1,900 ppm), which are present above Commercial SCOs, as well as chromium (101 ppm) and selenium (55 ppm). Metals that were present in SS-1 include arsenic (15.3 ppm), barium (447 ppm), cadmium (9.3 ppm), chromium (245 ppm), lead (629 ppm) and mercury (0.4 ppm). Another smoke stack, located on the Globe portion of the property, was not accessible for sampling during this investigation. That stack likely contains similar constituents of concern as identified in the STACK-1 sample.
- Based on our experience at other sites with metals contamination, concentrations of arsenic, cadmium, chromium and lead are present in the soil at the Globe Site and Solsil Site at concentrations that may require handling of soil and/or sediment as hazardous waste if excavated and removed from the site during redevelopment activities.
- Benzo(a)pyrene was detected above industrial SCOs for SVOCs in SS-1 and SB-3. Numerous SVOCs were also detected at concentrations that exceeded Unrestricted SCOs.
- Sheening, elevated PID readings and odors were noted in boring location SB-6. Elevated PID reading and odors were noted in boring location SB-2. Additional soil sampling and installation of groundwater monitoring wells is recommended in these areas to determine the extent of impacts.
- Aboveground storage tanks at the Globe Site that are not intended to be utilized in the future should be drained, cleaned and removed from the Site. Liquid and/or sediment contents should be sampled and properly characterized for off-Site disposal.
- Abandoned drums on the Globe Site and Solsil Site will require sampling and characterization prior to off-Site disposal. Handling, transportation and off-Site disposal of drums and their contents should be conducted in accordance with applicable federal, state and/or local regulations.
- Areas of obvious petroleum surface staining on the Solsil Site and Globe Site should be cleaned and/or excavated to the extents of the petroleum-impacted surfaces and/or underlying soil. Handling, transportation and off-Site disposal of impacted soil or other materials (e.g., concrete) should be conducted in accordance with applicable federal, state and/or local regulations.
- The gray and green-colored material as well as the tar-like material noted in the northern portion of the Globe site should be sampled and properly characterized. Based on the 100-year historic use of the Globe and Solsil Sites for metal alloy manufacturing and steel finishing, chromium or other metals waste may have been generated on-Site. Based on our experience at other historic industrial sites in Niagara Falls, green-colored consolidated wastes encountered at other industrial sites contained elevated concentrations of chromium. The tar-like substance may contain elevated concentrations of VOCs and/or PAHs

- Based on this limited preliminary investigation, analytical results and field observations suggest historic releases from previous industrial operations at both the Globe Site and Solsil Site. However, we recommend a more thorough investigation of both Sites to better define the extents of contaminants in all media, including groundwater, subsurface soil, surface soil, sediments, solid/sediment contents of drums and liquid contents of ASTs and drums. Interior building areas, including former machine shops, transformer rooms and maintenance areas should also be sampled prior to any planned demolition activities.
- Based on the approximate 100-year historic heavy industrial use of the site, significant recognized environmental concerns related to the historic Site use, the confirmed presence of contaminants at concentrations that require mitigation, and redevelopment challenges that are involved in redevelopment of these types of properties, both redevelopment projects (i.e., the Globe Site and the Solsil Site) appear to be good candidates for the New York Brownfield Cleanup Program.

Thank you for allowing Benchmark to provide environmental consulting services to Globe Metallurgical, Inc. Please contact us if you have any questions or require additional information.

Sincerely,  
Benchmark Environmental Engineering & Science, PLLC



Michael Lesakowski  
Project Manager

Att.

C: File 0170-001-100



# TABLES



**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**GLOBE METALLURGICAL, INC.**  
**3807 HIGHLAND AVENUE SITE**  
**NIAGARA FALLS, NEW YORK**

Depth (fbgs)	SOIL BORING LOCATIONS										
	SB-1 (ppm)	SB-2 (ppm)	SB-3 (ppm)	SB-4 (ppm)	SB-5 (ppm)	SB-6 (ppm)	SB-7 (ppm)	SB-8 (ppm)	SB-9 (ppm)	SB-10 (ppm)	SB-11 (ppm)
(0 - 2)	23.8	28.3	201.0	9.1	1.1	0.0	0.3	0.0	12.2	34.1	15.7
(2 - 4)		436.0		7.7	0.8						
(4 - 6)	58.7	533.0	--	9.1	0.0	0.0	0.2	--	4.4	57.1	47.1
(6 - 8)	283.0		--					--			
(8 - 10)	--	401.0	--	--	0.0	0.2	0.9	--	--	--	88.3
(10-12)	--	183.0	--	--	0.0	32.8	--	--	--	--	13.2
(12-14)	--	53.8	--	--	--	68.7	--	--	--	--	--

Note:

Highest recorded PID readings within a given depth range shown

NA - Not Applicable

19.5 PID readings above 5 ppm

"--" = sample was not collected at that depth

**TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS  
GLOBE METALLURGICAL, INC.  
3807 HIGHLAND AVENUE SITE  
NIAGARA FALLS, NEW YORK**

Parameter <sup>1</sup>	Sample Locations														Unrestricted SCOs (ppm)	Restricted SCOs Commercial (ppm)	Restricted SCOs Industrial (ppm)
	SS-1	SS-2	Stack-1	SB-1 (5.5-7.5)	SB-2 (4-8)	SB-3 (0-3)	SB-4 (4-6)	SB-5 (4-8)	SB-6 (10-14)	SB-7 (4-8)	SB-8 (0-4)	SB-9 (0-4)	SB-10 (4-7)	SB-11 (8-10)			
<b>TCL Volatile Organic Compounds (VOCs) + STARS (VOCs) - mg/kg <sup>4</sup></b>																	
Acetone	--	--	--	0.029 B	0.02 BJ	0.16 B	--	--	0.02 BJ	--	--	--	ND	ND	0.05	500	1000
2-Butanone (MEK)	--	--	--	ND	ND	0.016 J	--	--	ND	--	--	--	ND	ND			
Carbon disulfide	--	--	--	0.003 J	0.003 J	0.004 J	--	--	0.003 J	--	--	--	0.002 J	0.002 J			
Isopropylbenzene (Cumene)	--	--	--	ND	ND	ND	--	--	0.001 J	--	--	--	ND	ND			
Methylcyclohexane	--	--	--	ND	ND	ND	--	--	0.003 J	--	--	--	ND	ND			
Methylene chloride	--	--	--	0.011 B	0.015 B	0.008 B	--	--	0.014 B	--	--	--	0.014 B	0.012 B	0.05	500	1000
Toluene	--	--	--	ND	ND	ND	--	--	0 BJ	--	--	--	ND	ND	0.7	500	1000
n-Propylbenzene	--	--	--	ND	ND	ND	--	--	0.003 J	--	--	--	ND	ND	3.9	500	1000
p-Cymene (p-isopropyltoluene)	--	--	--	ND	ND	ND	--	--	0.001 J	--	--	--	ND	ND			
1,2,4-Trimethylbenzene	--	--	--	ND	0.004 J	ND	--	--	ND	--	--	--	ND	ND	3.6	190	380
1,3,5-Trimethylbenzene	--	--	--	ND	0.003 J	ND	--	--	ND	--	--	--	ND	ND	8.4	190	380
n-Butylbenzene	--	--	--	ND	ND	ND	--	--	0.008	--	--	--	ND	ND	12	500	1000
sec-Butylbenzene	--	--	--	ND	ND	ND	--	--	0.004 J	--	--	--	ND	ND	11	500	1000
Total TCL VOCs + STARS VOCs	--	--	--	0.043	0.043	0.188	--	--	0.058	--	--	--	0.016	0.014	11	500	1000
<b>STARS Semi-Volatile Organic Compounds (SVOCs) - mg/kg <sup>4</sup></b>																	
Acenaphthene	ND	--	--	ND	ND	0.55 J	--	ND	0.14 J	0.068 J	ND	ND	ND	0.11 J	20	500	1000
Acenaphthylene	ND	--	--	ND	ND	0.18 J	--	ND	0.082 J	0.082 J	ND	ND	ND	ND	100	500	1000
Anthracene	ND	--	--	0.015 J	ND	0.55 J	--	ND	0.13 J	0.2 J	ND	ND	0.11 J	0.16 J	100	500	1000
Benzo(a)anthracene	0.7 J	--	--	ND	0.009 J	1.4	--	ND	ND	0.7 J	ND	ND	0.35 J	0.56 J	1	5.6	11
Benzo(b)fluoranthene	1.8 J	--	--	ND	0.008 J	2.3	--	ND	ND	0.87 J	ND	ND	0.5 J	0.82 J	1	5.6	11
Benzo(k)fluoranthene	1.2 J	--	--	ND	0.021 J	0.72 J	--	ND	ND	0.29 J	ND	0.019 J	0.21 J	0.29 J	0.8	56	110
Benzo(g,h,i)perylene	0.65 J	--	--	ND	ND	1.6	--	ND	ND	0.47 J	ND	ND	0.21 J	0.31 J	100	500	1000
Benzo(a)pyrene	1.3 J	--	--	ND	ND	2.1	--	ND	ND	0.66 J	ND	ND	0.38 J	0.6 J	1	1	1.1
Chrysene	2.2 BJ	--	--	0.02 BJ	0.02 BJ	1.5 B	--	0.02 BJ	0.13 BJ	0.68 BJ	0.03 BJ	0.02 BJ	0.44 BJ	0.71 BJ	1	56	110
Dibenzo(a,h)anthracene	ND	--	--	ND	ND	0.35 J	--	ND	ND	0.15 J	ND	ND	0.073 J	0.11 J	0.33	0.56	1.1
Fluoranthene	1.3 J	--	--	0.015 J	0.013 J	2.8	--	ND	0.048 J	1.3	0.009 J	0.01 J	0.5 J	1.1	100	500	1000
Fluorene	ND	--	--	ND	ND	0.39 J	--	ND	0.3 J	ND	ND	ND	0.043 J	0.064 J	30	500	1000
Indeno(1,2,3-cd)pyrene	0.6 J	--	--	ND	ND	1.4	--	ND	ND	0.41 J	ND	ND	0.22 J	0.27 J	0.5	5.6	11

**TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS  
GLOBE METALLURGICAL, INC.  
3807 HIGHLAND AVENUE SITE  
NIAGARA FALLS, NEW YORK**

Parameter <sup>1</sup>	Sample Locations														Unrestricted SCOs (ppm)	Restricted SCOs Commercial (ppm)	Restricted SCOs Industrial (ppm)
	SS-1	SS-2	Stack-1	SB-1 (5.5-7.5)	SB-2 (4-8)	SB-3 (0-3)	SB-4 (4-6)	SB-5 (4-8)	SB-6 (10-14)	SB-7 (4-8)	SB-8 (0-4)	SB-9 (0-4)	SB-10 (4-7)	SB-11 (8-10)			
2-Methylnaphthalene	1.5 J	--	--	ND	ND	0.22 J	--	ND	0.27 J	0.052 J	ND	ND	ND	ND			
Naphthalene	0.78 J	--	--	ND	ND	0.33 J	--	ND	ND	0.069 J	ND	ND	0.04 J	0.072 J	12	500	1000
Phenanthrene	2 BJ	--	--	0.02 BJ	0.02 BJ	2.1 B	--	0.01 BJ	0.68 BJ	0.7 BJ	0.02 BJ	0.02 BJ	0.33 BJ	0.74 BJ	100	500	1000
Pyrene	1.6 J	--	--	0.016 J	0.011 J	2.6	--	ND	0.085 J	1 J	ND	ND	0.4 J	0.84 J	100	500	1000
<i>Total STARS SVOCs</i>	15.63	--	--	0.081	0.097	21.09	--	0.03	1.865	7.701	0.049	0.065	3.806	6.756			
<b>RCRA Metals - mg/kg <sup>4</sup></b>																	
Arsenic	15.3	ND	666	3.7	6.8	11.9	3	2.9	2.4	14.1	4.5	ND	10.5	11.2	13	16	16
Barium	447	88.7	1250	75.8	290	77.6	36.6	63.6	22	375	174	20.8	94	111	350	400	10,000
Cadmium	9.3	0.8	30.3	ND	0.86	1.2	ND	ND	1.8	1.2	0.29	1.6	1.3	1.5	2.5	9.3	60
Chromium	245	17.1	101	12.8	692	105	11.3	15.7	15.6	830	30.2	15.2	310	483	30	1,500	6,800
Lead	629	47.7	1900	5.9	212	74.6	3	5.2	177	168	10.9	52.4	409	508	63	1,000	3,900
Mercury	0.4	1.2	0.043	0.043	0.095	ND	ND	ND	0.048	ND	ND	0.23	0.036	0.071	0.18	2.8	5.7
Selenium	ND	ND	55.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	1,500	6,800
<b>Polychlorinated Biphenyls (PCBs) - mg/kg <sup>4</sup></b>																	
Aroclor 1254	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	1	25
Aroclor 1260	ND	ND	ND	ND	ND	0.84	ND	ND	ND	ND	ND	ND	ND	ND	0.1	1	25
<i>Total PCBs</i>	0.63	--	--	--	--	0.84	--	--	--	--	--	--	--	--	0.1	1	25

**Notes:**

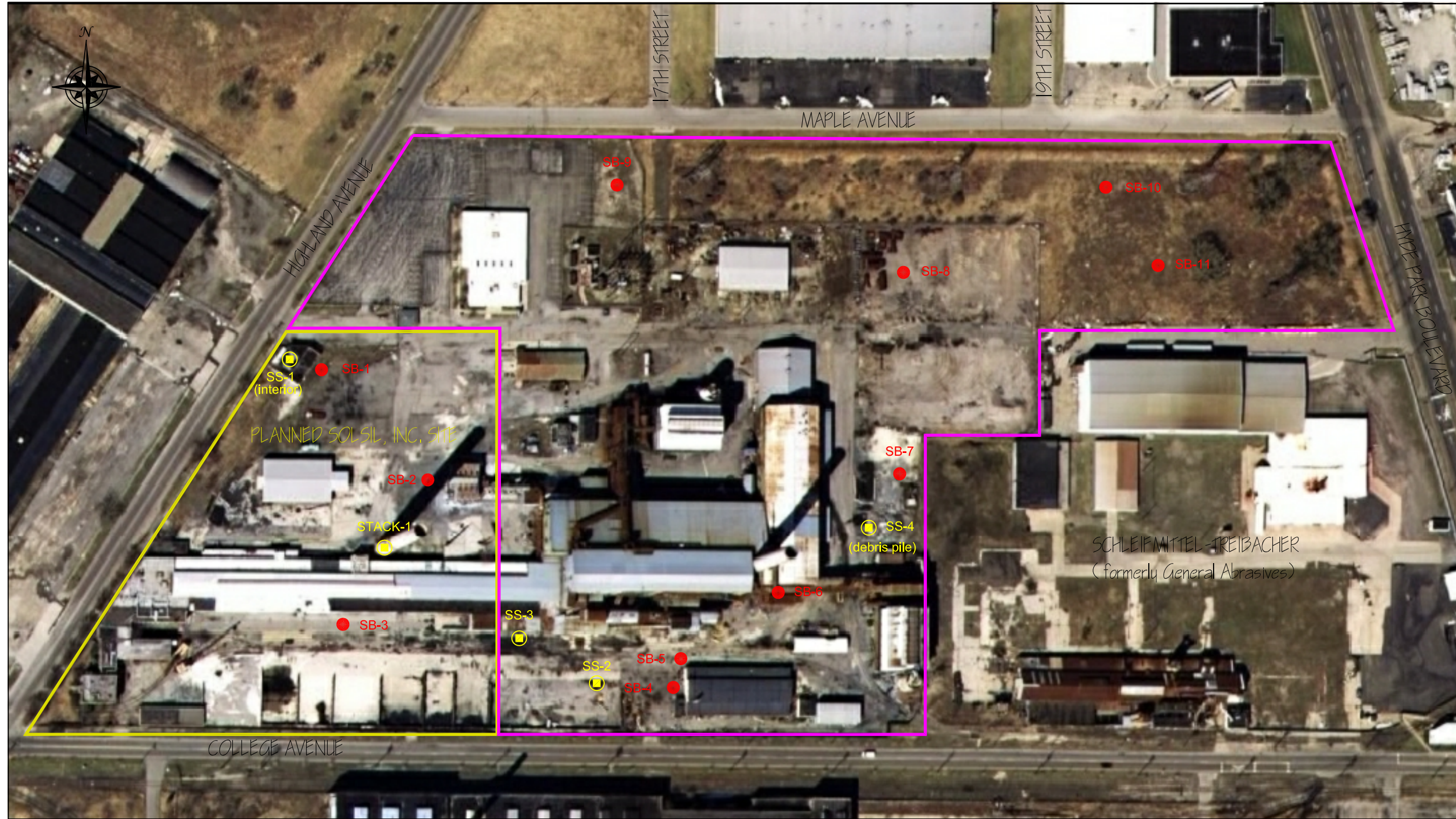
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6 NYCRR Part 375 NYSDEC Soil Cleanup Objectives .
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

**Definitions:**

- ND = Parameter not detected above laboratory detection limit.
- J = Estimated value; result is less than the sample quantitation limit but greater than zero.
- B = Analyte was detected in the associated blank as well as in the sample. Value is above the action level for consideration as being external contamination.

	= Exceeds Unrestricted SCOs
	= Exceeds Commercial SCOs
	= Exceeds Industrial SCOs

# FIGURES



**LEGEND:**

- PROPERTY BOUNDARY (GLOBE)
- PROPERTY BOUNDARY (SOLSIL)
- SURFACE SAMPLE LOCATION
- SOIL BORING LOCATION

NOT TO SCALE

**SAMPLE LOCATIONS**  
 PRELIMINARY SITE INVESTIGATION  
 3807 HIGHLAND AVENUE SITE  
 NIAGARA FALLS, NEW YORK  
 PREPARED FOR  
 GLOBE METALLURGICAL, INC.

**BENCHMARK**  
 ENVIRONMENTAL  
 ENGINEERING &  
 SCIENCE, PLLC

726 EXCHANGE STREET  
 SUITE 624  
 BUFFALO, NEW YORK 14210  
 (716) 856-0589

JOB NO.: 0170-001-100

**FIGURE 1**

# **ATTACHMENT 1**

## **Laboratory Analytical Results**

Date: 09/05/2008  
Time: 16:12:58

Benchmark  
Globe Metallurgical  
BENCHMARK-SOIL-SW8463 8270-L PAHS ONLY

Rept: AN1246

Client ID Job No Sample Date		Lab ID		SS-1 A08-A597 08/18/2008		A8A59701			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	11000	NA		NA		NA	
Acenaphthylene	UG/KG	ND	11000	NA		NA		NA	
Anthracene	UG/KG	ND	11000	NA		NA		NA	
Benzo(a)anthracene	UG/KG	700 J	11000	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	1800 J	11000	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	1200 J	11000	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	650 J	11000	NA		NA		NA	
Benzo(a)pyrene	UG/KG	1300 J	11000	NA		NA		NA	
Chrysene	UG/KG	2200 BJ	11000	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	11000	NA		NA		NA	
Fluoranthene	UG/KG	1300 J	11000	NA		NA		NA	
Fluorene	UG/KG	ND	11000	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	600 J	11000	NA		NA		NA	
2-Methylnaphthalene	UG/KG	1500 J	11000	NA		NA		NA	
Naphthalene	UG/KG	780 J	11000	NA		NA		NA	
Phenanthrene	UG/KG	2000 BJ	11000	NA		NA		NA	
Pyrene	UG/KG	1600 J	11000	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	NA		NA		NA	
Naphthalene-D8	%	88	50-200	NA		NA		NA	
Acenaphthene-D10	%	90	50-200	NA		NA		NA	
Phenanthrene-D10	%	97	50-200	NA		NA		NA	
Chrysene-D12	%	118	50-200	NA		NA		NA	
Perylene-D12	%	149	50-200	NA		NA		NA	
Nitrobenzene-D5	%	97	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	83	43-120	NA		NA		NA	
p-Terphenyl-d14	%	82	51-125	NA		NA		NA	
Phenol-D5	%	90	38-120	NA		NA		NA	
2-Fluorophenol	%	76	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab



Date: 09/05/2008  
 Time: 16:12:58

Benchmark  
 Globe Metallurgical  
 METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID Job No Sample Date		Lab ID	SS-1 A08-A597 08/18/2008	A8A59701					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	210	NA		NA		NA	
Aroclor 1221	UG/KG	ND	210	NA		NA		NA	
Aroclor 1232	UG/KG	ND	210	NA		NA		NA	
Aroclor 1242	UG/KG	ND	210	NA		NA		NA	
Aroclor 1248	UG/KG	ND	210	NA		NA		NA	
Aroclor 1254	UG/KG	630	210	NA		NA		NA	
Aroclor 1260	UG/KG	ND	210	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	100	35-134	NA		NA		NA	
Decachlorobiphenyl	%	270 *	34-148	NA		NA		NA	

NA = Not Applicable    ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
 Time: 16:13:19

Benchmark  
 Globe Metallurgical  
 BENCHMARK - SW8463 RCRA METALS - S

Rept: AN1246

Client ID Job No Sample Date		Lab ID		SS-1 A08-A597 08/18/2008 A8A59701		SS-2 A08-A597 08/18/2008 A8A59702		STACK-1 A08-A597 08/18/2008 A8A59705			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	15.3	2.7	ND	5.2	666	2.4	NA			
Barium - Total	MG/KG	447	0.67	88.7	1.3	1250	3.0	NA			
Cadmium - Total	MG/KG	9.3	0.27	0.80	0.52	30.3	0.24	NA			
Chromium - Total	MG/KG	245	0.67	17.1	1.3	101	0.60	NA			
Lead - Total	MG/KG	629	1.3	47.7	2.6	1900	1.2	NA			
Mercury - Total	MG/KG	0.40	0.027	1.2	0.052	0.043	0.027	NA			
Selenium - Total	MG/KG	ND	5.3	ND	10.4	55.3	4.8	NA			
Silver - Total	MG/KG	ND	0.67	ND	1.3	ND	0.60	NA			

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
Time: 16:14:02

Benchmark  
Globe Metallurgical  
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		SB-1 (5.5-7.5)		SB-2 (4-8)		SB-3 (0-3)		SB-6 (10-14)	
Job No	Lab ID	A08-A609	A8A60901	A08-A609	A8A60902	A08-A609	A8A60903	A08-A609	A8A60906
Sample Date		08/27/2008		08/27/2008		08/27/2008		08/27/2008	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	29 B	29	18 BJ	29	160 B	29	19 BJ	28
Benzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromodichloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromoform	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromomethane	UG/KG	ND	6	ND	6	ND	6	ND	6
2-Butanone	UG/KG	ND	29	ND	29	16 J	29	ND	28
Carbon Disulfide	UG/KG	3 J	6	3 J	6	4 J	6	3 J	6
Carbon Tetrachloride	UG/KG	ND	6	ND	6	ND	6	ND	6
Chlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroform	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Cyclohexane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dibromoethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Dibromochloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
Ethylbenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
2-Hexanone	UG/KG	29	29	ND	29	ND	29	ND	28
Isopropylbenzene	UG/KG	ND	6	ND	6	ND	6	1 J	6
Methyl acetate	UG/KG	ND	6	ND	6	ND	6	ND	6
Methylcyclohexane	UG/KG	ND	6	ND	6	ND	6	3 J	6
Methylene chloride	UG/KG	11 B	6	15 B	6	8 B	6	14 B	6
4-Methyl-2-pentanone	UG/KG	ND	29	ND	29	ND	29	ND	28
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	ND	6	ND	6
Styrene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Toluene	UG/KG	ND	6	ND	6	ND	6	2 BJ	6
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
Time: 16:14:02

Benchmark  
Globe Metallurgical  
METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID Job No Sample Date		SB-1 (5.5-7.5) A08-A609 08/27/2008		SB-2 (4-8) A08-A609 08/27/2008		SB-3 (0-3) A08-A609 08/27/2008		SB-6 (10-14) A08-A609 08/27/2008	
Lab ID		A8A60901		A8A60902		A8A60903		A8A60906	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichlorofluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Vinyl chloride	UG/KG	ND	11	ND	12	ND	12	ND	11
Total Xylenes	UG/KG	ND	17	ND	18	ND	17	ND	17
o-Xylene	UG/KG	ND	6	ND	6	ND	6	ND	6
m/p-Xylenes	UG/KG	ND	11	ND	12	ND	12	ND	11
n-Propylbenzene	UG/KG	ND	6	ND	6	ND	6	3 J	6
p-Cymene	UG/KG	ND	6	ND	6	ND	6	1 J	6
1,2,4-Trimethylbenzene	UG/KG	ND	6	4 J	6	ND	6	ND	6
1,3,5-Trimethylbenzene	UG/KG	ND	6	3 J	6	ND	6	ND	6
n-Butylbenzene	UG/KG	ND	6	ND	6	ND	6	8	6
sec-Butylbenzene	UG/KG	ND	6	ND	6	ND	6	4 J	6
tert-Butylbenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	94	50-200	96	50-200	100	50-200
1,4-Difluorobenzene	%	100	50-200	92	50-200	97	50-200	99	50-200
1,4-Dichlorobenzene-D4	%	98	50-200	91	50-200	91	50-200	100	50-200
Toluene-D8	%	111	71-125	112	71-125	114	71-125	112	71-125
p-Bromofluorobenzene	%	110	72-126	110	72-126	110	72-126	112	72-126
1,2-Dichloroethane-D4	%	89	61-136	93	61-136	91	61-136	93	61-136

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
Time: 16:14:02

Benchmark  
Globe Metallurgical  
BENCHMARK-SOIL-SW8463 8270-L PAHS ONLY

Rept: AN1246

Client ID Job No Sample Date		SB-1 (5.5-7.5) A08-A609 08/27/2008		SB-2 (4-8) A08-A609 08/27/2008		SB-3 (0-3) A08-A609 08/27/2008		SB-4 (4-6) A08-A609 08/27/2008	
Lab ID		A8A60901		A8A60902		A8A60903		A8A60904	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	190	ND	200	550 J	1100	ND	990
Acenaphthylene	UG/KG	ND	190	ND	200	180 J	1100	ND	990
Anthracene	UG/KG	15 J	190	ND	200	550 J	1100	ND	990
Benzo(a)anthracene	UG/KG	ND	190	9 J	200	1400	1100	ND	990
Benzo(b)fluoranthene	UG/KG	ND	190	8 J	200	2300	1100	ND	990
Benzo(k)fluoranthene	UG/KG	ND	190	21 J	200	720 J	1100	ND	990
Benzo(ghi)perylene	UG/KG	ND	190	ND	200	1600	1100	ND	990
Benzo(a)pyrene	UG/KG	ND	190	ND	200	2100	1100	ND	990
Chrysene	UG/KG	17 BJ	190	16 BJ	200	1500 B	1100	94 BJ	990
Dibenzo(a,h)anthracene	UG/KG	ND	190	ND	200	350 J	1100	ND	990
Fluoranthene	UG/KG	15 J	190	13 J	200	2800	1100	ND	990
Fluorene	UG/KG	ND	190	ND	200	390 J	1100	ND	990
Indeno(1,2,3-cd)pyrene	UG/KG	ND	190	ND	200	1400	1100	ND	990
2-Methylnaphthalene	UG/KG	ND	190	ND	200	220 J	1100	ND	990
Naphthalene	UG/KG	ND	190	ND	200	330 J	1100	ND	990
Phenanthrene	UG/KG	18 BJ	190	19 BJ	200	2100 B	1100	ND	990
Pyrene	UG/KG	16 J	190	11 J	200	2600	1100	ND	990
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	87	50-200	94	50-200	83	50-200	99	50-200
Naphthalene-D8	%	89	50-200	94	50-200	86	50-200	103	50-200
Acenaphthene-D10	%	88	50-200	95	50-200	87	50-200	103	50-200
Phenanthrene-D10	%	78	50-200	79	50-200	93	50-200	91	50-200
Chrysene-D12	%	86	50-200	76	50-200	96	50-200	98	50-200
Perylene-D12	%	94	50-200	81	50-200	120	50-200	102	50-200
Nitrobenzene-D5	%	80	35-120	80	35-120	68	35-120	68	35-120
2-Fluorobiphenyl	%	79	43-120	74	43-120	79	43-120	66	43-120
p-Terphenyl-d14	%	88	51-125	89	51-125	94	51-125	79	51-125
Phenol-D5	%	81	38-120	76	38-120	70	38-120	68	38-120
2-Fluorophenol	%	68	30-120	66	30-120	54	30-120	58	30-120
2,4,6-Tribromophenol	%	98	46-129	95	46-129	87	46-129	72	46-129

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
Time: 16:14:02

Benchmark  
Globe Metallurgical  
BENCHMARK-SOIL-SW8463 8270-L PAHS ONLY

Rept: AN1246

Client ID Job No Sample Date		SB-5 (4-8) A08-A609 08/27/2008		SB-6 (10-14) A08-A609 08/27/2008		SB-7 (4-8) A08-A609 08/27/2008		SB-8 (0-4) A08-A609 08/27/2008	
Lab ID		A8A60905		A8A60906		A8A60907		A8A60908	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	210	140 J	930	68 J	1100	ND	210
Acenaphthylene	UG/KG	ND	210	82 J	930	82 J	1100	ND	210
Anthracene	UG/KG	ND	210	130 J	930	200 J	1100	ND	210
Benzo(a)anthracene	UG/KG	ND	210	ND	930	700 J	1100	ND	210
Benzo(b)fluoranthene	UG/KG	ND	210	ND	930	870 J	1100	ND	210
Benzo(k)fluoranthene	UG/KG	ND	210	ND	930	290 J	1100	ND	210
Benzo(ghi)perylene	UG/KG	ND	210	ND	930	470 J	1100	ND	210
Benzo(a)pyrene	UG/KG	ND	210	ND	930	660 J	1100	ND	210
Chrysene	UG/KG	20 BJ	210	130 BJ	930	680 BJ	1100	25 BJ	210
Dibenzo(a,h)anthracene	UG/KG	ND	210	ND	930	150 J	1100	ND	210
Fluoranthene	UG/KG	ND	210	48 J	930	1300	1100	9 J	210
Fluorene	UG/KG	ND	210	300 J	930	ND	1100	ND	210
Indeno(1,2,3-cd)pyrene	UG/KG	ND	210	ND	930	410 J	1100	ND	210
2-Methylnaphthalene	UG/KG	ND	210	270 J	930	52 J	1100	ND	210
Naphthalene	UG/KG	ND	210	ND	930	69 J	1100	ND	210
Phenanthrene	UG/KG	10 BJ	210	680 BJ	930	700 BJ	1100	15 BJ	210
Pyrene	UG/KG	ND	210	85 J	930	1000 J	1100	ND	210
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	91	50-200	89	50-200	88	50-200	91	50-200
Naphthalene-D8	%	93	50-200	89	50-200	93	50-200	93	50-200
Acenaphthene-D10	%	93	50-200	92	50-200	95	50-200	91	50-200
Phenanthrene-D10	%	80	50-200	94	50-200	103	50-200	82	50-200
Chrysene-D12	%	88	50-200	99	50-200	104	50-200	92	50-200
Perylene-D12	%	92	50-200	120	50-200	129	50-200	104	50-200
Nitrobenzene-D5	%	73	35-120	82	35-120	75	35-120	80	35-120
2-Fluorobiphenyl	%	69	43-120	81	43-120	74	43-120	78	43-120
p-Terphenyl-d14	%	86	51-125	90	51-125	84	51-125	88	51-125
Phenol-D5	%	73	38-120	79	38-120	78	38-120	79	38-120
2-Fluorophenol	%	64	30-120	66	30-120	67	30-120	72	30-120
2,4,6-Tribromophenol	%	88	46-129	86	46-129	77	46-129	95	46-129

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BENCHMARK-SOIL-SW8463 8270-L PAHS ONLY

Rept: AN1246

Client ID		SB-9 (0-4)							
Job No		A08-A609		ABA60909					
Sample Date		08/27/2008							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	210	NA		NA		NA	
Acenaphthylene	UG/KG	ND	210	NA		NA		NA	
Anthracene	UG/KG	ND	210	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	210	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	210	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	19 J	210	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	210	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	210	NA		NA		NA	
Chrysene	UG/KG	21 BJ	210	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	210	NA		NA		NA	
Fluoranthene	UG/KG	10 J	210	NA		NA		NA	
Fluorene	UG/KG	ND	210	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	210	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	210	NA		NA		NA	
Naphthalene	UG/KG	ND	210	NA		NA		NA	
Phenanthrene	UG/KG	15 BJ	210	NA		NA		NA	
Pyrene	UG/KG	ND	210	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	89	50-200	NA		NA		NA	
Naphthalene-D8	%	89	50-200	NA		NA		NA	
Acenaphthene-D10	%	89	50-200	NA		NA		NA	
Phenanthrene-D10	%	78	50-200	NA		NA		NA	
Chrysene-D12	%	87	50-200	NA		NA		NA	
Perylene-D12	%	97	50-200	NA		NA		NA	
Nitrobenzene-D5	%	78	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	74	43-120	NA		NA		NA	
p-Terphenyl-d14	%	89	51-125	NA		NA		NA	
Phenol-D5	%	76	38-120	NA		NA		NA	
2-Fluorophenol	%	67	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	92	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

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METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID Job No Sample Date		Lab ID	SB-1 (5.5-7.5) A08-A609 08/27/2008 ABA60901		SB-2 (4-8) A08-A609 08/27/2008 ABA60902		SB-3 (0-3) A08-A609 08/27/2008 ABA60903		SB-4 (4-6) A08-A609 08/27/2008 ABA60904	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Aroclor 1016	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1221	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1232	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1242	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1248	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1254	UG/KG	ND	19	ND	19	ND	84	ND	19	
Aroclor 1260	UG/KG	ND	19	ND	19	840	84	ND	19	
SURROGATE(S)										
Tetrachloro-m-xylene	%	72	35-134	78	35-134	50	35-134	76	35-134	
Decachlorobiphenyl	%	85	34-148	88	34-148	96	34-148	85	34-148	

Client ID Job No Sample Date		Lab ID	SB-5 (4-8) A08-A609 08/27/2008 ABA60905		SB-6 (10-14) A08-A609 08/27/2008 ABA60906		SB-7 (4-8) A08-A609 08/27/2008 ABA60907		SB-8 (0-4) A08-A609 08/27/2008 ABA60908	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Aroclor 1016	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1221	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1232	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1242	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1248	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1254	UG/KG	ND	20	ND	18	ND	22	ND	21	
Aroclor 1260	UG/KG	ND	20	ND	18	ND	22	ND	21	
SURROGATE(S)										
Tetrachloro-m-xylene	%	77	35-134	67	35-134	92	35-134	78	35-134	
Decachlorobiphenyl	%	90	34-148	87	34-148	112	34-148	89	34-148	



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 METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID Job No Sample Date		Lab ID	SB-9 (0-4) A08-A609 08/27/2008	A8A60909					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	20	NA		NA		NA	
Aroclor 1221	UG/KG	ND	20	NA		NA		NA	
Aroclor 1232	UG/KG	ND	20	NA		NA		NA	
Aroclor 1242	UG/KG	ND	20	NA		NA		NA	
Aroclor 1248	UG/KG	ND	20	NA		NA		NA	
Aroclor 1254	UG/KG	ND	20	NA		NA		NA	
Aroclor 1260	UG/KG	ND	20	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	35-134	NA		NA		NA	
Decachlorobiphenyl	%	86	34-148	NA		NA		NA	

NA = Not Applicable ND = Not Detected

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Rept: AN1246

Client ID Job No Sample Date		SB-1 (5.5-7.5) A08-A609 08/27/2008		SB-2 (4-8) A08-A609 08/27/2008		SB-3 (0-3) A08-A609 08/27/2008		SB-4 (4-6) A08-A609 08/27/2008	
Lab ID		A8A60901		A8A60902		A8A60903		A8A60904	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	3.7	2.4	6.8	2.5	11.9	2.8	3.0	2.4
Barium - Total	MG/KG	75.8	0.61	290	0.62	77.6	0.70	36.6	0.59
Cadmium - Total	MG/KG	ND	0.24	0.86	0.25	1.2	0.28	ND	0.24
Chromium - Total	MG/KG	12.8	0.61	692	0.62	105	0.70	11.3	0.59
Lead - Total	MG/KG	5.9	1.2	212	1.2	74.6	1.4	3.0	1.2
Mercury - Total	MG/KG	0.043	0.023	0.095	0.023	ND	0.026	ND	0.023
Selenium - Total	MG/KG	ND	4.9	ND	5.0	ND	5.6	ND	4.7
Silver - Total	MG/KG	ND	0.61	ND	0.62	ND	0.70	ND	0.59

Client ID Job No Sample Date		SB-5 (4-8) A08-A609 08/27/2008		SB-6 (10-14) A08-A609 08/27/2008		SB-7 (4-8) A08-A609 08/27/2008		SB-8 (0-4) A08-A609 08/27/2008	
Lab ID		A8A60905		A8A60906		A8A60907		A8A60908	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	2.9	2.4	2.4	2.1	14.1	2.9	4.5	2.8
Barium - Total	MG/KG	63.6	0.61	22.0	0.52	375	0.72	174	0.70
Cadmium - Total	MG/KG	ND	0.24	1.8	0.21	1.2	0.29	0.29	0.28
Chromium - Total	MG/KG	15.7	0.61	15.6	0.52	830	0.72	30.2	0.70
Lead - Total	MG/KG	5.2	1.2	177	1.0	168	1.4	10.9	1.4
Mercury - Total	MG/KG	ND	0.028	0.048	0.022	ND	0.027	ND	0.027
Selenium - Total	MG/KG	ND	4.9	ND	4.1	ND	5.8	ND	5.6
Silver - Total	MG/KG	ND	0.61	ND	0.52	ND	0.72	ND	0.70

NA = Not Applicable ND = Not Detected

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 BENCHMARK - SW8463 RCRA METALS - S

Rept: AN1246

Client ID		SB-9 (0-4)							
Job No		A08-A609		A8A60909					
Sample Date		08/27/2008							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	ND	2.6	NA		NA		NA	
Barium - Total	MG/KG	20.8	0.66	NA		NA		NA	
Cadmium - Total	MG/KG	1.6	0.26	NA		NA		NA	
Chromium - Total	MG/KG	15.2	0.66	NA		NA		NA	
Lead - Total	MG/KG	52.4	1.3	NA		NA		NA	
Mercury - Total	MG/KG	0.23	0.026	NA		NA		NA	
Selenium - Total	MG/KG	ND	5.2	NA		NA		NA	
Silver - Total	MG/KG	ND	0.66	NA		NA		NA	

NA = Not Applicable ND = Not Detected

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METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		SB-10(4-7)		SB-11(8-10)					
Job No		A08-A611		A08-A611					
Sample Date		08/27/2008		08/27/2008					
Lab ID		A8A61101		A8A61102					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	29	ND	29	NA		NA	
Benzene	UG/KG	ND	6	ND	6	NA		NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	NA		NA	
Bromoform	UG/KG	ND	6	ND	6	NA		NA	
Bromomethane	UG/KG	ND	6	ND	6	NA		NA	
2-Butanone	UG/KG	ND	29	ND	29	NA		NA	
Carbon Disulfide	UG/KG	2 J	6	2 J	6	NA		NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	NA		NA	
Chlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Chloroethane	UG/KG	ND	6	ND	6	NA		NA	
Chloroform	UG/KG	ND	6	ND	6	NA		NA	
Chloromethane	UG/KG	ND	6	ND	6	NA		NA	
Cyclohexane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dibromoethane	UG/KG	ND	6	ND	6	NA		NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
Ethylbenzene	UG/KG	ND	6	ND	6	NA		NA	
2-Hexanone	UG/KG	ND	29	ND	29	NA		NA	
Isopropylbenzene	UG/KG	ND	6	ND	6	NA		NA	
Methyl acetate	UG/KG	ND	6	ND	6	NA		NA	
Methylcyclohexane	UG/KG	ND	6	ND	6	NA		NA	
Methylene chloride	UG/KG	14 B	6	12 B	6	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	29	ND	29	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	NA		NA	
Styrene	UG/KG	ND	6	ND	6	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	NA		NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	NA		NA	
Toluene	UG/KG	ND	6	ND	6	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	

NA = Not Applicable ND = Not Detected

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METHOD 8260 - TCL VOLATILE ORGANICS+STARS

Rept: AN1246

Client ID		SB-10(4-7)		SB-11(8-10)					
Job No		A08-A611		A08-A611					
Lab ID		A8A61101		A8A61102					
Sample Date		08/27/2008		08/27/2008					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	NA		NA	
Trichlorofluoromethane	UG/KG	ND	6	ND	6	NA		NA	
Trichloroethene	UG/KG	ND	6	ND	6	NA		NA	
Vinyl chloride	UG/KG	ND	12	ND	12	NA		NA	
Total Xylenes	UG/KG	ND	17	ND	18	NA		NA	
o-Xylene	UG/KG	ND	6	ND	6	NA		NA	
m/p-Xylenes	UG/KG	ND	12	ND	12	NA		NA	
n-Propylbenzene	UG/KG	ND	6	ND	6	NA		NA	
p-Cymene	UG/KG	ND	6	ND	6	NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	6	ND	6	NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	6	ND	6	NA		NA	
n-Butylbenzene	UG/KG	ND	6	ND	6	NA		NA	
sec-Butylbenzene	UG/KG	ND	6	ND	6	NA		NA	
tert-Butylbenzene	UG/KG	ND	6	ND	6	NA		NA	
<del>IS/SURROGATE(S)</del>									
Chlorobenzene-D5	%	94	50-200	97	50-200	NA		NA	
1,4-Difluorobenzene	%	94	50-200	95	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	94	50-200	NA		NA	
Toluene-D8	%	113	71-125	112	71-125	NA		NA	
p-Bromofluorobenzene	%	110	72-126	110	72-126	NA		NA	
1,2-Dichloroethane-D4	%	95	61-136	95	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

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Date: 09/05/2008  
Time: 16:17:43

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BENCHMARK-SOIL-SW8463 8270-L PAHS ONLY

Rept: AN1246

Client ID		SB-10(4-7)		SB-11(8-10)					
Job No		A08-A611		A08-A611					
Sample Date		08/27/2008		08/27/2008					
Lab ID		A8A61101		A8A61102					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	1000	110 J	1000	NA		NA	
Acenaphthylene	UG/KG	ND	1000	ND	1000	NA		NA	
Anthracene	UG/KG	110 J	1000	160 J	1000	NA		NA	
Benzo(a)anthracene	UG/KG	350 J	1000	560 J	1000	NA		NA	
Benzo(b)fluoranthene	UG/KG	500 J	1000	820 J	1000	NA		NA	
Benzo(k)fluoranthene	UG/KG	210 J	1000	290 J	1000	NA		NA	
Benzo(ghi)perylene	UG/KG	210 J	1000	310 J	1000	NA		NA	
Benzo(a)pyrene	UG/KG	380 J	1000	600 J	1000	NA		NA	
Chrysene	UG/KG	440 BJ	1000	710 BJ	1000	NA		NA	
Dibenzo(a,h)anthracene	UG/KG	73 J	1000	110 J	1000	NA		NA	
Fluoranthene	UG/KG	500 J	1000	1100	1000	NA		NA	
Fluorene	UG/KG	43 J	1000	64 J	1000	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	220 J	1000	270 J	1000	NA		NA	
2-Methylnaphthalene	UG/KG	ND	1000	ND	1000	NA		NA	
Naphthalene	UG/KG	40 J	1000	72 J	1000	NA		NA	
Phenanthrene	UG/KG	330 BJ	1000	740 BJ	1000	NA		NA	
Pyrene	UG/KG	400 J	1000	840 J	1000	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	86	50-200	83	50-200	NA		NA	
Naphthalene-D8	%	92	50-200	86	50-200	NA		NA	
Acenaphthene-D10	%	94	50-200	89	50-200	NA		NA	
Phenanthrene-D10	%	100	50-200	95	50-200	NA		NA	
Chrysene-D12	%	116	50-200	115	50-200	NA		NA	
Perylene-D12	%	158	50-200	157	50-200	NA		NA	
Nitrobenzene-D5	%	52	35-120	71	35-120	NA		NA	
2-Fluorobiphenyl	%	62	43-120	67	43-120	NA		NA	
p-Terphenyl-d14	%	69	51-125	65	51-125	NA		NA	
Phenol-D5	%	60	38-120	71	38-120	NA		NA	
2-Fluorophenol	%	45	30-120	65	30-120	NA		NA	
2,4,6-Tribromophenol	%	99	46-129	94	46-129	NA		NA	

NA = Not Applicable ND = Not Detected

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 Globe Metallurgical  
 METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID Job No Sample Date		Lab ID	SB-10(4-7) A08-A611 08/27/2008	A8A61101	SB-11(8-10) A08-A611 08/27/2008	A8A61102			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1221	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1232	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1242	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1248	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1254	UG/KG	ND	19	ND	20	NA		NA	
Aroclor 1260	UG/KG	ND	19	ND	20	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	71	35-134	84	35-134	NA		NA	
Decachlorobiphenyl	%	88	34-148	96	34-148	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 09/05/2008  
 Time: 16:17:58

Benchmark  
 Globe Metallurgical  
 BENCHMARK - SW8463 RCRA METALS - S

Rept: AN1246

Client ID		SB-10(4-7)		SB-11(8-10)					
Job No		A08-A611		A08-A611					
Sample Date		08/27/2008		08/27/2008					
Lab ID		A8A61101		A8A61102					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	10.5	2.2	11.2	2.5	NA		NA	
Barium - Total	MG/KG	94.0	0.56	111	0.62	NA		NA	
Cadmium - Total	MG/KG	1.3	0.22	1.5	0.25	NA		NA	
Chromium - Total	MG/KG	310	0.56	483	0.62	NA		NA	
Lead - Total	MG/KG	409	1.1	508	1.2	NA		NA	
Mercury - Total	MG/KG	0.036	0.022	0.071	0.024	NA		NA	
Selenium - Total	MG/KG	ND	4.5	ND	5.0	NA		NA	
Silver - Total	MG/KG	ND	0.56	ND	0.62	NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab



# ATTACHMENT 07

## LISTING OF CURRENT & PREVIOUS SITE OWNERS

## Attachment 07

### Listing of Current & Previous Site Owners

**Globe Metallurgical, Inc.  
3807 Highland Avenue  
Brownfield Cleanup Program Application**

#### INTRODUCTION

Reasonable attempts were made to attain complete previous site owner contact information. In some cases, previous owners complete contact information was not available. The following table lists the previous property owners:

Parcel Address and Size	Date(s)	Relationship to Applicant
<b>3807 Highland Avenue (all parcels listed below)</b>		
<b>Current Owner</b>		
Globe Metallurgical, Inc. (1) 1595 Sparling Road P.O. Box 157 Beverly, OH 45715 (740) 984-8608	2006 - present	Same
<b>Previous Owners</b>		
Globe Metallurgical, Inc. 3807 Highland Avenue Niagara Falls, NY 14305	1994 - 2006	None- company's assets were merged into Globe Acquisition Corp. in November 2006, and Globe Acquisition Corp. was later renamed to Globe Metallurgical Inc.
SKW Alloys, Inc. (a.k.a. SKW Newco, Inc.) 3801 Highland Avenue Niagara Falls, NY 14305	1979 – 1994	None
Air Reduction Company, Inc. (a.k.a. Pittsburgh Metallurgical Co.) P.O. Box 368 Niagara Falls, NY 14302	1913 - 1979	None
Niagara Steel Finishing Company (2) 1702 College Avenue Niagara Falls, NY 14305 (SE portion of 3801 Highland Ave. property)*	Circa 1937 -1954	None

(1) A wholly-owned subsidiary of Globe Specialty Metals (GSM). GSM was formed in 2004.

(2) See Figure 1-2 in Attachment 01.

## Attachment 07

### Listing of Current & Previous Site Owners

**Globe Metallurgical, Inc.  
3807 Highland Avenue  
Brownfield Cleanup Program Application**

Globe Metallurgical Inc. is the owner/operator of the tax parcels that comprise the Project Site, as listed below, totaling 20.4 acres:

- Portion of 3801 Highland Avenue – SBL No. 130.14-2-41
- 4009 Highland Avenue – SBL No. 130.14-2-40
- 4025 Highland Avenue – SBL No. 130.14-2-35
- 4002 Hyde Park Blvd. – SBL No. 130.15-1-8
- 4024 Hyde Park Blvd. – SBL No. 130.15-1-17
- 1633 Maple Avenue – SBL No. 130.14-2-36
- 1725 Maple Avenue – SBL No. 130.15-1-13
- 1911 Maple Avenue – SBL No. 130.15-1-6
- 1925 Maple Avenue – SBL No. 130.15-1-16
- 1636 Massachusetts Ave. – SBL No. 130.14-2-37
- 1622 Massachusetts Ave. – SBL No. 130.14-2-39
- 1632 Massachusetts Ave. – SBL No. 130.14-2-38
- 1702 Massachusetts Ave. – SBL No. 130.15-1-12
- 1724 Massachusetts Ave. – SBL No. 130.15-1-11.1
- 1914 Massachusetts Ave. – SBL No. 130.15-1-15
- 1930 Massachusetts Ave. – SBL No. 130.15-1-7

# ATTACHMENT 08

## LISTING OF CURRENT & PREVIOUS SITE OPERATORS

**Attachment 08**

**Listing of Current and Previous Site Operators**

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

**INTRODUCTION**

Reasonable attempts were made to attain complete previous site operator contact information. In some cases, previous operators complete contact information was not available. The following table lists the previous property operators:

<b>Parcel Address and Size</b>	<b>Date(s)</b>	<b>Relationship to Applicant</b>
<b>3807 Highland Avenue (all parcels listed below)</b>		
<b>Current Owner</b>		
Globe Metallurgical, Inc. (1) 1595 Sparling Road P.O. Box 157 Beverly, OH 45715 (740) 984-8608	2006 - present	Same
<b>Previous Owners</b>		
Globe Metallurgical, Inc. 3807 Highland Avenue Niagara Falls, NY 14305	1994 - 2006	None- company's assets were merged into Globe Acquisition Corp. in November 2006, and Globe Acquisition Corp. was later renamed to Globe Metallurgical Inc.
SKW Alloys, Inc. (a.k.a. SKW Newco, Inc.) 3801 Highland Avenue Niagara Falls, NY 14305	1979 – 1994	None
Air Reduction Company, Inc. (a.k.a. Pittsburgh Metallurgical Co.) P.O. Box 368 Niagara Falls, NY 14302	1913 - 1979	None
Niagara Steel Finishing Company (2) 1702 College Avenue Niagara Falls, NY 14305 (SE portion of 3801 Highland Ave. property)*	Circa 1937 - 1954	None

(1) A wholly-owned subsidiary of Globe Specialty Metals (GSM). GSM was formed in 2004.

(2) See Figure 1-2 in Attachment 01

# ATTACHMENT 09

## CONTACT LIST INFORMATION

## Attachment 09

### Contact List Information

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

#### New York State Contacts:

Regional Director  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Gregory Sutton  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Ms. Megan Gollwitzer  
NYSDEC, Region 9  
270 Michigan Ave.  
Buffalo, N.Y 14203

Mr. Michael Hinton  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Daniel David  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Lawrence Ennist  
NYSDEC  
625 Broadway  
Albany, NY 12233

Ms. Meaghan Boice-Green  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Mark VanValkenburg  
NYSDOH, Room 205  
547 River Street  
Troy, NY 12180

Mr. Matthew Forcucci  
NYSDOH  
584 Delaware Avenue  
Buffalo, NY 14202

Senator Hillary Rodham-Clinton  
U.S. Senate  
726 Exchange Street, Suite 511  
Buffalo, NY 14210

Senator Charles Schumer  
U.S. Senate, Suite 660  
130 So. Elmwood Ave  
Buffalo, NY 14202

Senator George Maziarz  
62<sup>nd</sup> District  
2578 Niagara Falls Blvd.,  
Suite 600  
Wheatfield, NY 14304

Congressman Brian Higgins  
Larkin Building  
726 Exchange Street, Suite 610  
Buffalo, NY 14210

Assemblywoman Francine Delmonte  
138th District  
1700 Pine Ave.  
Niagara Falls, NY 14301

Rep. Louise Slaughter  
NY 28<sup>th</sup> District  
1910 Pine Ave.  
Niagara Falls, NY 14301

Mr. Michael Basile  
WNY Public Information Office  
186 Exchange St.  
Buffalo, NY 14204

**Attachment 09  
Contact List Information**

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

**Niagara County Contacts:**

Ms. Paulette M. Kline, Director  
Niagara County Dept.of Health  
5467 Upper Mtn. Road, Suite 100  
Lockport NY 14094-1894

Mayor Vince Anello  
Niagara Falls  
745 Main Street  
Niagara Falls, NY 14302

Ms. Carol Antonucci  
Niagara Falls City Clerk  
745 Main Street  
Niagara Falls, NY 14302

Mr. Bruno Walker  
Niagara Falls Deputy Director  
745 Main Street  
Niagara Falls, NY 14302

Mr. Michael Shanley  
Niag. Co. Emergency Planning  
Niagara & Hawley Street  
Lockport, NY 14094

Chairman William L. Ross  
Niagara County Legislature  
175 Hawley Street  
Lockport NY 14094-2740

Mr. Daniel Bristol  
Niagara Falls City Admin.  
4010 Barton Street  
Niagara Falls, NY 14305

Mr. Kevin O'Brien  
Niagara Falls City Engineer  
745 Main Street  
Niagara Falls, NY 14302

Mr. Richard Roll  
Niagara Falls Water Board  
1200 Buffalo Ave., PO Box 69  
Niagara Falls, NY 14302-0069

Mr. James Devald, P.E.  
Niagara Co. Health Dept.  
5467 Upper Mountain Road  
Lockport, NY 14094

Clerk Michael Carney  
Niagara Co. Legislature  
175 Hawley Street  
Lockport, NY 14094

Mr. Wayne Jagow  
Niagara County Clerk  
Courthouse  
Lockport, NY 14094

Mr. Paul Dickey  
Niagara County Health Dept.  
5467 Upper Mountain Rd.  
Lockport, NY 14094-1899

Beverly Snell  
Niagara County Municipal Clerk  
8942 Ridge Rd.  
Gasport, NY 14067

James Hoffman, Co-Chair  
Niagara County EMC  
8737 Lake Rd.  
Baker, NY 14102

Joanne Ellsworth  
Niagara Co. EMC  
59 Park Ave.  
Lockport, NY 14094

Mr. Ronald C. Johnston, Admin. Dir.  
Niagara Co. Water Authority  
5450 Ernest Rd., PO Box 315  
Lockport, NY 14094

Amy Fisk, Env. Planner  
Niagara County Center for  
Economic Development  
6311 Inducon Corporate Dr.  
Sanborn, NY 14132



**Attachment 09  
Contact List Information**

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

**Niagara County Contacts (cont'd):**

David E. Wertman, MPA Comm.  
Niagara Co. Health Dept.  
5467 Upper Mountain Rd.  
Lockport, NY 14094

Mr. Samuel M. Ferraro, Exec. Dir.  
Niagara Co. Ind. Dev. Agency  
6311 Inducon Corporate Drive  
Sanborn, NY 14132

Mr. Dennis F. Virtuoso  
Niagara Co. Legislature #4  
2703 Independence Ave.  
Niagara Falls NY 14301

Alan Nusbaum  
City of Niagara Fall Dept. of  
Planning/ Environ. Services  
745 Main Street  
Niagara Falls, NY 14302

**Local News Media:**

ATTN: Jay Bonfatti  
The Buffalo News  
1 News Plaza  
Buffalo, NY 14240

WKBW-TV  
7 Broadcast Plaza  
Buffalo, NY 14202

WBEN News Radio 930  
Entercom Radio of Buffalo  
500 Corporate Pkwy, Suite 200  
Buffalo, NY 14226

ATTN: Env. News Desk  
WGRZ TV - CH. 2  
259 Delaware Avenue  
Buffalo, NY 14202

ATTN: Environmental News Desk  
WIVB - CH. 4  
2077 Elmwood Avenue  
Buffalo, NY 14207

ATTN: Michael Desmond  
WNED, Env. News Desk  
PO 1263, Horizons Plaza  
Buffalo, NY 14240

ATTN: Tracey Drury  
Business First  
465 Main Street  
Buffalo, NY 14203-1793

ATTN: Aaron Besecker  
The Niagara Gazette  
310 Niagara Street  
Niagara Falls, NY 14302

ATTN: Mike Hudson, Editor  
Niagara Falls Reporter  
1625 Buffalo Ave  
Niagara Falls, NY 14303

**Attachment 09  
Contact List Information**

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

**Local News Media (cont.):**

ATTN: News Director  
WLVL 1340  
PO Box 477  
Lockport, NY 14095-0477

ATTN: Environmental News Desk  
WJYE  
1700 Rand Building  
Buffalo, NY 14203

**Supplier of Potable Water:**

Niagara County Water District  
PO Box 315  
Lockport, NY 14905-0315

**Document Repository:**

Niagara Falls Public Library  
Earl W. Brydges Building  
1425 Main Street  
Niagara Falls, NY 14305

**Nearby Schools:**

Principal Lawrence Martinez  
Sixty Sixth Street School  
630 66th Street  
Niagara Falls, NY 14304

Principal Maria Chille-Zafuto  
Niagara Middle School  
6431 Girard Ave.  
Niagara Falls, NY 14304

Principal Joseph Colburn  
Gaskill Middle School  
910 Hyde Park Blvd.  
Niagara Falls NY 14301

**Attachment 09  
Contact List Information**

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

**Other Interested Groups:**

Mr. Brian Smith  
Citizens Campaign-Environment  
3144 Main Street  
Buffalo, NY 14214

WNY Director  
Citizens' Env. Coalition  
543 Franklin St., Rm. 2  
Buffalo, NY 14202-1109

Mr. William Hiltz, Sr.  
Environmental Council  
5115 Baer Road  
Sanborn, NY 14132

Mr. Michael Podd  
4827 Rogers Rd.  
Hamburg, NY 14075

Chairwoman Jane Jontz  
Sierra Club, Niagara Group  
62 Lincoln Road  
Snyder, NY 14226

## ATTACHMENT 09

### AREA PROPERTY OWNERS

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site**

#### Brownfield Cleanup Program Application

Adjacent Property Address		Owner Name and Mailing Address
No.	Street	
3700	Highland Ave.	Michael Prakash Bhimsingh 3700 Highland Avenue Niagara Falls, NY 14305
3702	Highland Ave.	Isabel A. Anderson 3702 Highland Avenue Niagara Falls, NY 14305
3710	Highland Ave.	James E. Walker 3710 Highland Avenue Niagara Falls, NY 14305
3711	Highland Ave.	The House of God 3711 Highland Avenue Niagara Falls, NY 14305
3712	Highland Ave.	Kelvin & Sonya S. Agee 3712 Highland Avenue Niagara Falls, NY 14305
3716, 3718	Highland Ave.	Musid Mohammad Dubashi 3718 Highland Avenue Niagara Falls, NY 14305
3719, 3721	Highland Ave.	Eddie Ashley 3721 Highland Avenue Niagara Falls, NY 14305
3729	Highland Ave.	Niagara Mohawk Power Corp. (Right-of-Way)
3800	Highland Ave.	Dalana Realty, Inc. 3800 Highland Ave. Niagara Falls, NY 14305
4101	Highland Ave.	Niagara Falls Urban Renewal 4101 Highland Ave. Niagara Falls, NY 14305
4110	Highland Ave.	Armand Cerrone 4110 Highland Ave. Niagara Falls, NY 14305
1501	College Ave.	Niagara Vest, Inc. 1501 College Ave. Niagara Falls, NY 14305
1402, 1503, 1511, 1925 & 2000	College Ave.	Niagara Mohawk Power Corp. (Right-of-Way)



## ATTACHMENT 09

### AREA PROPERTY OWNERS

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site**

#### Brownfield Cleanup Program Application

Adjacent Property Address		Owner Name and Mailing Address
No.	Street	
1655	College Ave.	George J. Wolf 1655 College Ave. Niagara Falls, NY 14305
1731 & 1777	College Ave.	Hazorb, Inc. 1731 College Ave. Niagara Falls, NY 14305
1901	College Ave.	Eastern Ohio Paving, Inc. 1901 College Ave. Niagara Falls, NY 14305
2001	College Ave.	David Kushner 2001 College Ave. Niagara Falls, NY 14305
1701	Maryland Ave.	Frank A. Amendola 1701 Maryland Avenue Niagara Falls, NY 14305
3851	Hyde Park Blvd.	William Viele 3851 Hyde Park Blvd. Niagara Falls, NY 14305
3857	Hyde Park Blvd.	3857 Hyde Park Blvd. 3857 Hyde Park Blvd. Niagara Falls, NY 14305
3925	Hyde Park Blvd.	Park Development Associates 3925 Hyde Park Blvd. Niagara Falls, NY 14305
3938	Hyde Park Blvd.	Niagara County IDA 3938 Hyde Park Blvd. Niagara Falls, NY 14305
3940	Hyde Park Blvd.	Schleifmittel Treibacher 3940 Hyde Park Blvd. Niagara Falls, NY 14305
4011	Hyde Park Blvd.	4011 Hyde Park Blvd, LLC 4011 Hyde Park Blvd. Niagara Falls, NY 14305
4120	Hyde Park Blvd.	Norman C. & Barbara A. Oliver 4120 Hyde Park Blvd. Niagara Falls, NY 14305
4129	Hyde Park Blvd.	Henry M. Felicetti Etal 4129 Hyde Park Blvd. Niagara Falls, NY 14305



## ATTACHMENT 09

### AREA PROPERTY OWNERS

Globe Metallurgical, Inc.  
3807 Highland Avenue Site

#### Brownfield Cleanup Program Application

Adjacent Property Address		Owner Name and Mailing Address
No.	Street	
3701 & 3703	Lehigh Court	Jack Brundage 3701 Lehigh Court Niagara Falls, NY 14035
3707, 3711, 3713, & 3715	Lehigh Court	John A. Brundage 3702 Lehigh Court Niagara Falls, NY 14305
3723, 3727	Lehigh Court	J.A. Brundage - The Drain 3727 Lehigh Court Niagara Falls, NY 14305
1910	Maple Ave.	Norman C. & Barbara A. Oliver 1910 Maple Avenue Niagara Falls, NY 14305
2109	Maple Ave.	Pierce Lonberger 2109 Maple Avenue Niagara Falls, NY 14305

# ATTACHMENT 10

## DOCUMENT REPOSITORY CONFIRMATION LETTER

August 29, 2008

Ms. Betty Babanoury  
Library Director  
Niagara Falls Public Library  
Earl W. Brydges Building  
1425 Main Street  
Niagara Falls, NY 14305

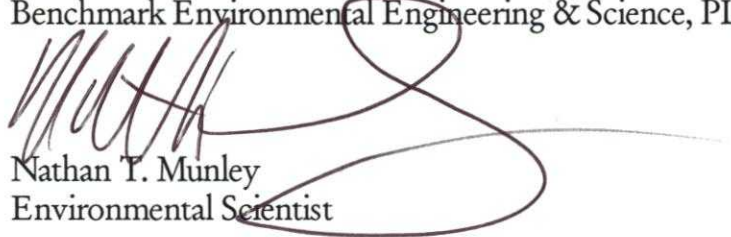
**Re: Document Repository  
3807 Highland Avenue, Niagara Falls, NY  
Brownfield Cleanup Program Application**

Dear Ms. Babanoury:

Per our recent telephone conversation, thank you for allowing the Niagara Falls Public Library to be the document repository for the above-referenced site.

Please contact me if you have questions or require additional information.

Sincerely,  
Benchmark Environmental Engineering & Science, PLLC



Nathan T. Munley  
Environmental Scientist

File: 0170-001-100



# ATTACHMENT 11

## ENVIRONMENTAL FACTORS AND HISTORIC LAND USE CONSIDERATIONS

## Attachment 11

### Environmental Factors & Historic Land Use Considerations

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

#### INTRODUCTION

The following provides a brief summary of the Site:

- There are no State or Federal wetlands or floodplains on the Site.
- The Site is located within a predominantly urban-developed area.
- There are no threatened or endangered species, or important plant habitats present on the Site.

# ATTACHMENT 12

## NEARBY LAND USE

## Attachment 12

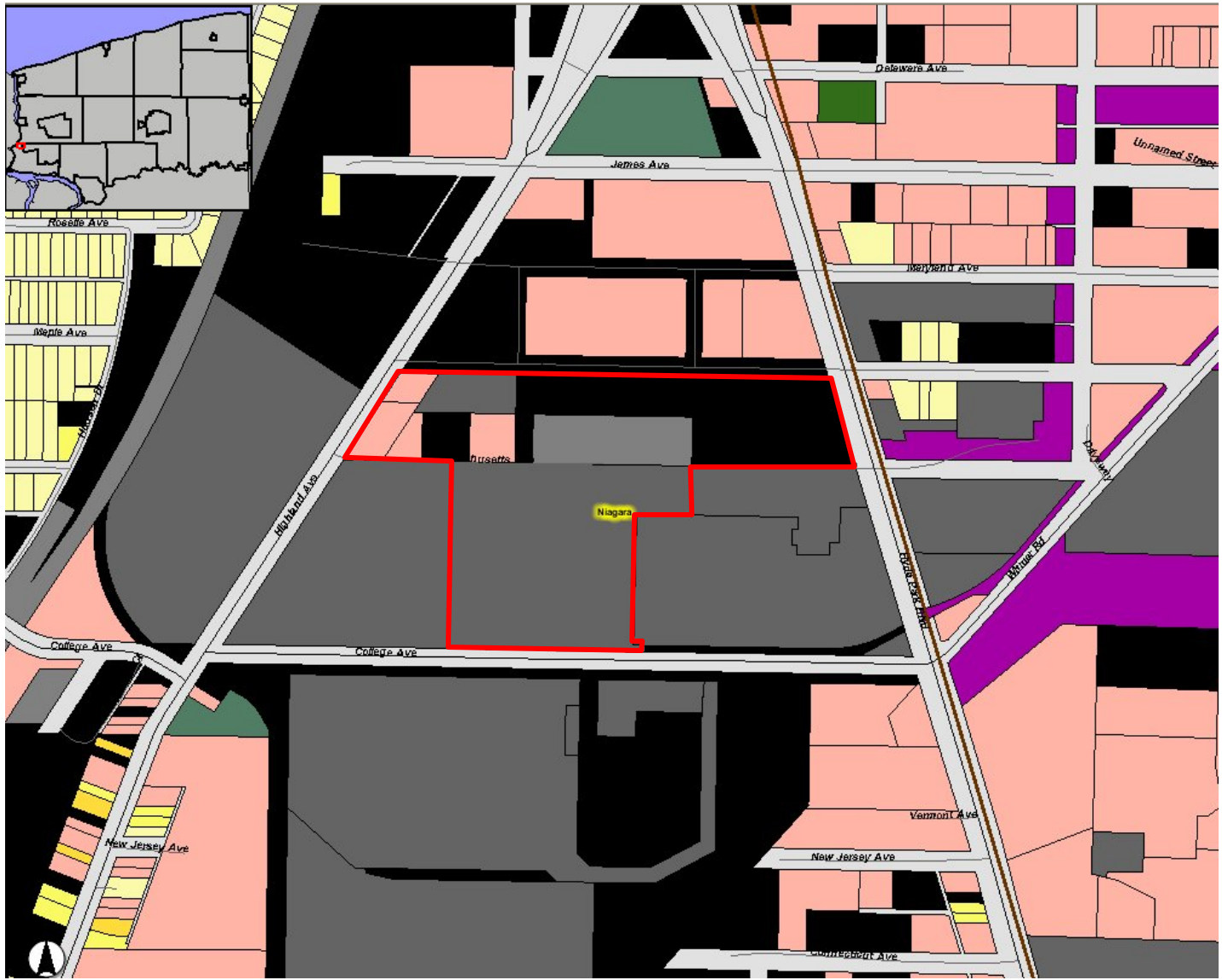
### Surrounding Land Use Description

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

#### SURROUNDING LAND USE DESCRIPTION

The Site, addressed as 3807 Highland Avenue, is located in an urban area of the City of Niagara Falls, Niagara County, New York. The Site includes 16 parcels of land as illustrated on Figure 2-1.

Properties adjacent to the Site include several commercial and industrial properties, vacant parcels, and utility right-of-ways (see Figure 12-1). The surrounding land is mixed use, including commercial, industrial, residential, and public use parcels.



- Legend**
- Municipalities
  - Local Roads
  - Interstate
  - Primary Federal & State
  - Secondary State & County
  - Local Road
  - Road Names**
  - Parcels**
  - Residential single family
  - Residential two family
  - Residential three family
  - Residential Other
  - Vacant
  - Commercial
  - Recreational
  - Community Service
  - Industrial
  - Public Service
  - Conservation Areas / Parks
  - Other
  - Parks
  - Lake Label

Per Niagara County GIS



726 EXCHANGE STREET  
 SUITE 624  
 BUFFALO, NEW YORK 14210  
 (716) 856-0599

PROJECT NO.: 0170-001-101  
 DATE: SEPTEMBER 2008  
 DRAFTED BY: NTM

**NEARBY LAND USE**  
 BROWNFIELD CLEANUP PROGRAM APPLICATION  
 3807 HIGHLAND AVENUE SITE  
 NIAGARA FALLS, NEW YORK  
 PREPARED FOR  
 GLOBE METALLURGICAL, INC.

**FIGURE 12-1**

FILEPATH:

# ATTACHMENT 13

## GROUNDWATER VULNERABILITY ASSESSMENT

## Attachment 13

### Groundwater Vulnerability Assessment

Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application

#### POTENTIAL VULNERABILITY OF GROUNDWATER TO CONTAMINATION

Currently, there are no known deed restrictions on the use of groundwater at the Site, and groundwater supply wells are not present on-site. Existing groundwater quality has not been investigated on the Site.

Regionally, groundwater in the area has not been developed for industrial, agriculture, or public supply purposes. Potable water service is provided on-site and off-site by the local municipal water authority.

#### GROUNDWATER FLOW/RECHARGE

Based on Site topography and proximity to the Niagara River, groundwater likely flows in a west/southwest direction (see Figure 1-1).

#### RECOMMENDATIONS

Further work is required to evaluate groundwater quality. Additional sampling to assess groundwater flow patterns and water quality will be investigated during the Remedial Investigation.

# ATTACHMENT 14

## DESCRIPTION OF SITE GEOGRAPHY/GEOLOGY



## Attachment 14

### Description of Site Geography/Geology

**Globe Metallurgical, Inc.  
3807 Highland Avenue Site  
Brownfield Cleanup Program Application**

#### **ECOLOGICAL SETTING**

The Site is covered primarily by former warehouse/manufacturing and office buildings, electrical substations, asphalt pavement, former building foundations, aboveground storage tanks, soil/fill piles, and vegetation.

The Site is located in the Erie-Niagara River Basin, which generally drains west/southwest from the Site, although localized variation may occur. The Niagara River, Lake Erie and Lake Ontario are the major bodies of water within this basin.

#### **DEMOGRAPHY AND LAND USE**

The Site is located in a highly developed urban-industrial setting. Land use surrounding the Site includes industrial, commercial, vacant, public use, and residential properties (see Figure 12-1).

No residential properties are adjacent to the Site. However, nearby residential areas are located across Hyde Park Avenue, northeast of the Site and on Highland Avenue southwest of the Site (see Figure 12-1).

#### **REGIONAL GEOLOGY/HYDROGEOLOGY**

The U.S. Department of Agriculture (USDA) Soil Conservation Service soil survey map of Niagara County describes the general surficial soil type at the Site as Canandaigua silt loam, with slopes ranging from 0 to 2%.

Based on Site topography and proximity to the Niagara River, regional groundwater likely flows in a west/southwest direction (see Figure 1-1).

#### **SITE GEOLOGY/HYDROGEOLOGY**

The Site is predominately flat, with no distinguishable site features. Precipitation (i.e., rain or snow melt) generally moves radially from the Site via overland flow to on-Site catch basins. Site soil/fill and groundwater flow will be investigated during the Remedial Investigation.