

New York State Department of Environmental Conservation  
 Division of Environmental Remediation  
 Bureau of Technical Support

ADDITIONS/CHANGES TO REGISTRY: SUMMARY OF APPROVALS

SITE NAME: Lackawanna Incinerator

DEC I.D. NUMBER 915206

Current Classification P

Volunteer Yes        No         
 Sign (7) below

Activity:  Add as Class 2  Reclassify to         Delist Category         Modify       

Approvals:

- |   |     |                                     |    |                          |                         |
|---|-----|-------------------------------------|----|--------------------------|-------------------------|
| 1. Regional Hazardous Waste Engineer                          | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | <u>6/2/06 + 6/19/06</u> |
| 2. BEEI of NYSDOH   | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | <u>8/17/06</u>          |
| 3. DEE  | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | <u>7/7/06</u>           |
| 4. <u>E. Belmont</u> Remedial Action Bureau Director <u>D</u> | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | <u>7/28/06</u>          |

- |   |                                 |      |                |
|---|---------------------------------|------|----------------|
| 5. Site Control Section <u>(dm)</u>   | <u>dm for Kelly Lewandowski</u> | Date | <u>8/18/06</u> |
| 6. Director   | <u>Andrew D. English</u>        | Date | <u>8/22/06</u> |
| 7. Assistant Division Director <u>\$9884</u><br>(Required only for Class 2 sites) <u>8/22</u> | <u>[Signature]</u>              | Date | <u>6/8/07</u>  |

Completion Checklist for Registry Sites

Completed By:  
 Initials

Date

- |  |                                     |           |                |
|--|-------------------------------------|-----------|----------------|
| OWNER NOTIFICATION LETTER?                   | <input checked="" type="checkbox"/> | <u>dm</u> | <u>6/7/07</u>  |
| ADJACENT PROPERTY OWNER NOTIFICATION LETTER? | <input checked="" type="checkbox"/> | <u>dm</u> | <u>6/29/07</u> |

ENB / LEGAL NOTICE SENT? (For Deletion Only)

COMMENTS SUMMARIZED / PLACE IN REPOSITORY?

FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only)

Sal 8/23  
 Date  
 I not sure this is a class 2 active site  
 One high bit of lead,  
 no groundwater contamination  
 Report says sediment is impacted  
 fel

6/2/2006

**New York State Department of Environmental Conservation  
Division of Environmental Remediation**



**MEMORANDUM**

**TO:** Kelly Lewandowski, Chief, Site Control Section, Bureau of Technical Support  
**FROM:** Martin Doster, RHWRE  
*Jsw* **THRU:** Jaspal Walia, Project Manager *Martin Doster*  
Ed Belmore, Director, Remedial Bureau D  
**SUBJECT: Proposed Site Classification Change**

|                               |                             |                                |             |
|-------------------------------|-----------------------------|--------------------------------|-------------|
| <b>Site Name</b>              | Lackawanna Incinerator site | <b>Site Code</b>               | 915206      |
| <b>City</b>                   | Lackawanna                  | <b>County</b>                  | Erie        |
| <b>Current Classification</b> | P                           | <b>Proposed Classification</b> | New Class 2 |

**DATE:** 6/2/2006

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We propose that the classification of this site be changed as indicated above. Please initiate the review and concurrence process for this proposed change. Attached is a Site Classification Form that provides information regarding the site and the basis for the proposed change. Also attached is the support document (in PDF format) that provides a site map, the classification worksheet, and other supporting information.

**Attachments**

ec w/att: Ed Belmore, Bureau Director  
Martin Doster, RHWRE  
Jaspal Walia, Project Manager



**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
Site Classification Form**



6/27/2006

|                               |            |                                |                             |
|-------------------------------|------------|--------------------------------|-----------------------------|
| <b>Site Code</b>              | 915206     | <b>Site Name</b>               | Lackawanna Incinerator site |
| <b>City</b>                   | Lackawanna | <b>Town</b>                    | Lackawanna (c)              |
| <b>Region</b>                 | 9          | <b>County</b>                  | Erie                        |
| <b>Current Classification</b> | P          | <b>Proposed Classification</b> | New Class 2                 |
| <b>Estimated Size (acres)</b> | 5          | <b>Site Type</b>               |                             |
| <b>Significant Threat:</b>    | √ Yes      | - No                           | - NA                        |
| <b>Priority ranking Score</b> | 230        | <b>Project Manager</b>         | Jaspal Walia                |

**Site Description**

The city-owned site includes approximately five acres of property surrounding two former municipal solid waste incinerators. The first incinerator was built in 1927 and the second in 1950. Incinerator operations ceased at the site in 1980. The site is dominated by a large, ramp-like, mound of soil/fill that was incorporated into the construction of the incinerators. The ramp is mostly soil however incinerator ash is found throughout the mound. Most of the incinerator ash was trucked off-site for disposal.

In 2005 the City conducted an environmental investigation of the site. Results indicate the ash has elevated lead and poly nuclear aromatic hydrocarbons (PAHs). The lead ranges up to 23,000 ppm, however most of the samples are around 1000 ppm or less.

The site is adjacent to a re-furbished public stadium and veterans park.

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Materials Disposed at Site</b> | <b>Quantity Disposed</b> |
| LEAD                              | UNKNOWN                  |

**Analytical Data Available for :**

**Applicable Standards Exceeded for:**

**Assessment of Environmental Problems**

The presence of elevated lead (Pb) in incinerator ash has resulted in contaminated surface and sub-surface fill/soils, as well as contaminated sediments leading to Smokes Creek. The values of lead range up to 23,000 parts per million (ppm).

Sediment has lead contamination reported at 3,580 ppm. Continued erosion of this material will impact the sediment and surface water quality of Smokes Creek.

**Assessment of Health Problems**

Assessment to be determined by DOH at a later date.



**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
Site Classification Form**



8/18/2006

**Site Code** 915206

**Site Name** Lackawanna Incinerator site

**Remedy Description and Cost**

**Remedy Description for Operable Unit 01**

**Total Cost**

|           |                                       |                |
|-----------|---------------------------------------|----------------|
| <b>OU</b> | <b>Site Management Plan Approval:</b> | <b>Status:</b> |
|-----------|---------------------------------------|----------------|

**Basis for Classification Change**

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion, and human contact. Currently the site is fenced, however, the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

**Organization Approval Dates:**

**Project Manager: 06/28/2006**

**DOH: 08/17/2006**

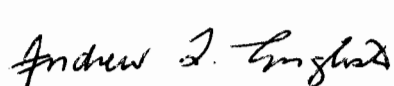
**DEE: 07/07/2006**

**Proj. Man. Supervisor: 06/02/2006**

**SCS Chief: 08/18/2006**

**Remedial Bureau Dir.: 07/28/2006**

**BTS BUR Dir.:**

|   |                    |         |
|---|--------------------|---------|
|  | DIRECTOR, BTS      | 8/22/06 |
| Signature (Concurrence with Proposed Classification)                                | Organization Title | Date    |

Veterinary

142.10-1-12.111

*Creeks*

Ron Jaworski Stadium

SITE

142.14-1-4.1

142.14-1-5.11

142.14-1-5.211

142.14-1-5.212

142.14-1-5.212

142.14-1-5.212

MARTIN

142.18-1-17.1

142.18-1-17.2

142.71-1-30

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Erie County, NY

GIS IMS Viewer

Printed 2-Jun-2006



Municipalities  
Parcels  
Railroads  
Road Names  
Local Roads  
Interstate  
Primary, Federal & State  
Secondary State & County  
Local Road  
Streams  
2002 Orthophotography



0.051mi

Erie County GIS Office

**From:** Megan Gollwitzer  
**To:** Doster, Martin  
**Date:** 6/2/2006 4:09:45 PM  
**Subject:** Reddon Street site info

Marty,

As requested, below is tax parcel/owner information for the property on Reddon Street in Lackawanna.

Subject Parcel:  
Site Address: 2960 South Park Ave., Lackawanna, NY 14218  
SBL/Tax Parcel ID#: 142.14-1-4.1  
Owner: City of Lackawanna

Adjacent Property Owners:

Diocese of Buffalo  
780 Ridge Rd.  
Lackawanna, NY 14218

Providence Tramontana  
2952 South Park Ave.  
Lackawanna, NY 14218

Timothy Rooney  
Re: 2956 South Park Ave.  
5647 Truscott Terrace  
Lakeview, NY 14085

Current Resident  
2956 South Park Ave.  
Lackawanna, NY 14218

John & Janet Greentaner  
2982 South Park Ave.  
Lackawanna, NY 14218

Richard Charlap  
Re: 3004 South Park Ave.  
110 Shadow Lane  
Orchard Park, NY 14217

City of Lackawanna  
Re: 30 Reddon St.  
714 Ridge Rd.  
Lackawanna, NY 14218

Please note: Tax parcel/owner information was unavailable for 2 of the adjacent parcels located on the northeastern side of the site. I will stop by on Monday to point out exactly which two parcels I am referring to. PDF aerial view/tax parcel map is attached.

Hope this helps. Have a great weekend!  
Megan

**From:** Megan Gollwitzer  
**To:** Moloughney, Debra  
**Date:** 8/23/2006 2:02:26 PM  
**Subject:** Re: Lackawanna Class Package

Good afternoon,  
Attached please find an additional list of contacts that I compiled for the Reddon Street site in Lackawanna, Erie County, should you need it. The list is currently in label format; if you would prefer an alternative format, just let me know and I will create one right and resend right away. I hope this will be helpful. Thank you for your patience while I was out of the office.  
Have a nice day,  
Megan

Megan Gollwitzer  
Citizen Participation Specialist  
NYS Department of Environmental Conservation  
270 Michigan Ave.  
Buffalo, NY 14203  
(716)851-7220  
megollwi@gw.dec.state.ny.us

>>> Martin Doster 08/21/06 11:49 AM >>>  
Deb,

The Reddon St info is all we have, there is no "official" contact list. If you need help with Mayor's office, elected officials, we can provide that on Wed when Megan returns to the office.

mld

>>> Debra Moloughney 08/21/06 10:45 AM >>>  
Hi Jaspal, Marty, and Megan,

I should have spotted this before, but is there an official contact list for this package or is the 6/2/06 email from Megan to Marty (re: Reddon Street site Info) that lists owner and adj prop owners the only thing you've got?

Please let me know ASAP as it's ready to go for final approval.

Deb

\*\*\*\*\*

Debra Moloughney  
Environmental Program Specialist Trainee  
Site Control Section  
Bureau of Technical Support  
NYSDEC  
Division of Environmental Remediation  
625 Broadway, 11th Floor  
Albany, NY 12233-7020  
(518) 402-9581  
email: [dmmoloug@gw.dec.state.ny.us](mailto:dmmoloug@gw.dec.state.ny.us)  
FAX: (518) 402-9577



**CC:** Doster, Martin; Walia, Jaspal

Mr. Lawrence Ennist  
N.Y.S. D.E.C.  
625 Broadway  
Albany, NY 12233-7017

Ms. Abby Snyder, Director  
N.Y.S. D.E.C., Region 9  
270 Michigan Ave.  
Buffalo, N.Y 14203

Community Outreach File  
N.Y.S. D.E.C., Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Ms. Meaghan Boice-Green  
N.Y.S. D.E.C., Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Daniel David  
N.Y.S. D.E.C., Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Martin Doster  
N.Y.S. D.E.C., Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Mr. Jaspal S. Walia  
N.Y.S. D.E.C., Region 9  
270 Michigan Avenue  
Buffalo, NY 14203

Ms. Megan Gollwitzer  
N.Y.S. D.E.C., Region 9  
270 Michigan Ave.  
Buffalo, N.Y 14203

Mr. Cameron O'Connor  
N.Y.S. D.O.H.  
584 Delaware Avenue  
Buffalo, NY 14202

Mr. Matt Forcucci  
N.Y.S. D.O.H.  
584 Delaware Avenue  
Buffalo, NY 14202

Mr. Rich Fedigan  
N.Y.S. D.O.H., Room 205  
547 River Street  
Troy, NY 12180

Mr. Michael Basile  
USEPA - Public Info. Office  
186 Exchange Street  
Buffalo, NY 14204

~~Mr. Patrick Daley  
Erie Co. Emergency Services  
95 Franklin Street  
Buffalo, NY 14202~~

~~Commissioner Andrew Eszak  
Erie Co. Environment & Plan.  
95 Franklin Street  
Buffalo, NY 14202~~

~~Mr. Paul Kranz  
Erie Co. Environment & Plan.  
95 Franklin Street  
Buffalo, NY 14202~~

~~Mr. Michael Raab  
Erie Co. Environment & Plan.  
95 Franklin Street  
Buffalo, NY 14202~~

Commissioner Anthony Billittier  
Erie Co. Health Dept., Rm 931  
95 Franklin Street  
Buffalo, NY 14202

~~Honorable Joel Giambra  
Erie County Executive  
95 Franklin Street  
Buffalo, NY 14202~~

~~Mr. Paul Leone  
Erie County I.D.A.  
275 Oak Street  
Buffalo, NY 14203~~

~~Mr. Chris Pawenski  
Erie County D.E.P.  
Edward Rath Buidling  
95 Franklin St.  
Buffalo, NY 14202~~

~~Mr. Kevin Kelley  
Erie County Legislature Clerk  
25 Delaware Avenue  
Buffalo, NY 14202~~

Mr. Thomas Love  
Lackawanna Chief Engineer  
714 Ridge Road  
Lackawanna, NY 14218

President Ronald Spadone  
Lackawanna City Council  
714 Ridge Road  
Lackawanna, NY 14218

Councilman Andrea Haxton  
Lackawanna City Council, 1st  
714 Ridge Road  
Lackawanna, NY 14218

Councilman Szymanski  
Lackawanna City Council, 2nd  
714 Ridge Road  
Lackawanna, NY 14218

Councilman Charles Jaworski  
Lackawanna City Council, 3rd  
714 Ridge Road  
Lackawanna, NY 14218

Councilman Joseph Schiavi  
Lackawanna City Council, 4th  
714 Ridge Road  
Lackawanna, NY 14218

Clerk Jacqueline Caferro  
Lackawanna Clerk's Office  
714 Ridge Road  
Lackawanna, NY 14218

~~Mr. David J. Swarts  
Erie County Clerk  
92 Franklin Street  
Buffalo, NY 14202~~

Erie County Water Authority  
350 Ellicott Square Building  
295 Main Street  
Buffalo, NY 14203

Lackawanna Planning Board  
714 Ridge Road  
Lackawanna, NY 14218

Mr. Nick Monafò  
Lackawanna Community Develop  
640 Ridge Road  
Lackawanna, NY 14218

Mr. William Eagan  
Lackawanna Empire Zone  
714 Ridge Road  
Lackawanna, NY 14218

Mayor Norman Polanski  
Lackawanna Mayor's Office  
714 Ridge Road  
Lackawanna, NY 14218

Mr. Dennis O'Hara  
Lackawanna Police Chief  
714 Ridge Road  
Lackawanna, NY 14218

~~Legislator Daniel Kozub  
Erie County Legislature, 1st.  
25 Delaware Avenue  
Buffalo, NY 14202~~

Assemblyman Jack Quinn  
146th Assembly District  
3812 South Park Avenue  
Blasdell, NY 14219

Assemblyman Mark Schroeder  
145<sup>th</sup> Assembly District  
2019 Seneca St.  
Buffalo, NY 14210

Congressman Brian Higgins  
Larkin Building, Suite 601  
726 Exchange Street  
Buffalo, NY 14210

Senator William Stachowski  
58th District, N.Y.S. Senate  
2030 Clinton Street  
Buffalo, NY 14206

Senator Hillary Rodham-Clinton  
Larkin Building, Suite 511  
726 Exchange Street  
Buffalo, NY 14210

Senator Charles Schumer  
U.S. Senate, Room 620  
111 West Huron Street  
Buffalo, NY 14202

~~ATTN: Michael Desmond  
WNED, ENVIRONMENTAL NEWS  
DESK  
PO 1263, Horizons Plaza  
Buffalo, NY 14240~~

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

~~ATTN: Environment News Desk  
WKBW News Channel 7  
7 Broadcast Plaza  
Buffalo, NY 14202~~

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

~~ATTN: Environment News Desk  
WBEN Radio 930 & WMJQ  
500 Corporate Pkwy  
Buffalo, NY 14226~~

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

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

~~Editor  
Bee Group Newspapers  
P.O. Box 477  
Lockport, NY 14222~~

~~Editor  
Metro Community News  
25 Boxwood Lane  
Buffalo, NY 14240~~

~~News Director  
Infinity Broadcasting  
14 Lafayette Square #1300  
Buffalo, NY 14203~~

~~News Director  
WBFO 88.7/91.3WOLN  
3435 Main St.  
Buffalo, NY 14214~~

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

~~Mr. Don Kill  
Erie County Sportsmen's Fed.  
55 Winstead Road  
Lackawanna, NY 14218~~

~~Julie Barrett O'Neill  
Buffalo Niagara Riverkeeper  
617 Main St., Ste. M108  
Buffalo, NY 14203~~

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

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

~~Ms. Lois Meyer  
League of Woman Voters  
731 W. Ferry St., Apt. 1 KL  
Buffalo, NY 14222~~

~~Mr. James Loesch  
Chairman, Erie Co. EMC  
National Fuel  
6363 Main St.  
Williamsville, NY 14221~~

Diocese of Buffalo  
780 Ridge Road  
Lackawanna, NY 14218

Providence Tramontana  
2952 South Park Ave.  
Lackawanna, NY 14218

Mr. Timothy Rooney  
5647 Truscott Terrace  
Lakeview, NY 14085

Current Resident  
2956 South Park Ave.  
Lackawanna, NY 14218

John & Janet Greentaner  
2982 South Park Ave.  
Lackawanna, NY 14218

Richard Charlap  
110 Shadow Lane  
Orchard Park, NY 14217

Current Resident  
3004 South Park Ave.  
Lackawanna, NY 14218

City of Lackawanna  
714 Ridge Road  
Lackawanna, NY 14218



# Significant Threat Worksheet



State Superfund Program  
6 NYCRR 375-1.4

Brownfields Cleanup Program  
ECL §27-1411.1(c)

Site Name: Lackawanna Incinerator

Site ID No. 915206

City/Town: Lackawanna

County: Erie

|  |  |   |  |
|--|--|---|--|
| 1. Has all available and relevant evidence regarding the Site been reviewed and the factors in §375-1.4(b) considered?   | <input checked="" type="checkbox"/> Yes<br>(go to 2)   | <input type="checkbox"/> No<br>(stop)               | <input type="checkbox"/> Unsure<br>(stop)    |
| 2. Does Site contamination result in significant adverse impacts (§375-1.4(a)(1)) to:  |  |   |  |
| a. species that are endangered, threatened, or of concern?   | <input type="checkbox"/> Yes<br>(go to b)  | <input checked="" type="checkbox"/> No<br>(go to b) | <input type="checkbox"/> Unsure<br>(go to b) |
| b. protected streams, tidal/freshwater wetlands, or significant fish and wildlife habitat?   | <input type="checkbox"/> Yes<br>(go to c)  | <input checked="" type="checkbox"/> No<br>(go to c) | <input type="checkbox"/> Unsure<br>(go to c) |
| c. flora or fauna from bioaccumulation or leads to a recommendation to limit consumption?  | <input type="checkbox"/> Yes<br>(go to d)  | <input checked="" type="checkbox"/> No<br>(go to d) | <input type="checkbox"/> Unsure<br>(go to d) |
| d. fish, shellfish, crustacea, or wildlife from concentrations that cause adverse/chronic effects?   | <input type="checkbox"/> Yes<br>(go to e)  | <input checked="" type="checkbox"/> No<br>(go to e) | <input type="checkbox"/> Unsure<br>(go to e) |
| e. the environment due to a fire, spill, explosion, or reaction that generates toxic gases, vapors, fumes, mists or dusts?   | <input type="checkbox"/> Yes<br>(go to f)  | <input checked="" type="checkbox"/> No<br>(go to f) | <input type="checkbox"/> Unsure<br>(go to f) |
| f. areas where individuals or water supplies may be present and NYSDOH has determined there to be a significantly increased risk to public health (including from soil vapor)? | <input type="checkbox"/> Yes<br>(go to 3)  | <input checked="" type="checkbox"/> No<br>(go to 3) | <input type="checkbox"/> Unsure<br>(go to 3) |
| 3. Does Site contamination result in significant environmental damage (§375-1.4(a)(2))?  | <input checked="" type="checkbox"/> Yes<br>(go to 4)   | <input type="checkbox"/> No<br>(go to 4)            | <input type="checkbox"/> Unsure<br>(stop)    |
| 4. If any box in items 2 or 3 have been checked "Yes," the site presents a significant threat to public health or the environment; check here.                                 | Significant threat to:<br><input checked="" type="checkbox"/> Public Health<br><input checked="" type="checkbox"/> Environment |   |  |
| 5. If no boxes in items 2 or 3 have been checked "Yes," the site does not present a significant threat to public health or the environment; check here.                        | <input type="checkbox"/> Not a Significant Threat  |   |  |

### Summary of Main Factors Contributing to this Determination:

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic Fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion, and human contact. Currently the site is fenced, however the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

|  |  |                       |                              |
|--|--|-----------------------|------------------------------|
| <u>Jaspal Walia</u><br>Project Manager Name/Title (Print)        | <u>Jaspal Singh Walia</u><br>Project Manager Name (Signature)  | <u>6/2/06</u><br>Date | <u>JSW</u><br><u>6/19/06</u> |
| <u>Martin Doster</u><br>Bureau Director/RHWRE Name/Title (Print) | <u>Martin Doster</u><br>Bureau Director/RHWRE Name (Signature) | <u>6/2/06</u><br>Date | <u>MD</u><br><u>6/19/06</u>  |



**SITE CLASSIFICATION WORKSHEET**  
**STATE SUPERFUND PROGRAM**  
 6 NYCRR 375-1.8



Site Name: Lackawanna Incinerator

Site ID No. 915206

City/Town: Lackawanna

County: Erie

|   |  |   |   |
|---|--|---|---|
| 1. Has hazardous waste as defined in ECL §27-1301.1 been disposed at the Site?  | <input checked="" type="checkbox"/> Yes<br>(go to 2) | <input type="checkbox"/> No<br>(stop)               | <input type="checkbox"/> Unsure<br>(go to 10) |
| 2. Does the Site present a current or reasonably foreseeable significant threat to public health or the environment (complete Significant Threat Determination Worksheet)?                      | <input checked="" type="checkbox"/> Yes<br>(go to 3) | <input type="checkbox"/> No<br>(go to 5)            | <input type="checkbox"/> Unsure<br>(go to 10) |
| 3. Is the significant threat causing or presenting an imminent danger of causing irreversible or irreparable damage to public health or the environment?  | <input type="checkbox"/> Yes<br>(Class 1)            | <input checked="" type="checkbox"/> No<br>(go to 4) | <input type="checkbox"/> Unsure<br>(stop)     |
| 4. Is the Site presenting a significant but not imminent threat to public health or the environment?  | <input checked="" type="checkbox"/> Yes<br>(Class 2) | <input type="checkbox"/> No<br>(go to 5)            |   |
| 5. Has hazardous waste been disposed but it does not present a significant threat to public health or the environment?  | <input type="checkbox"/> Yes<br>(Class 3)            | <input checked="" type="checkbox"/> No<br>(go to 6) |   |
| 6. Is the site properly remediated but still requires continued site management to maintain/achieve protectiveness?   | <input type="checkbox"/> Yes<br>(Class 4)            | <input checked="" type="checkbox"/> No<br>(go to 7) | <input type="checkbox"/> Unsure<br>(stop)     |
| 7. Is the site properly remediated, does not require continued site management (other than institutional controls), but is not suitable for delisting?  | <input type="checkbox"/> Yes<br>(Class 5)            | <input checked="" type="checkbox"/> No<br>(go to 8) | <input type="checkbox"/> Unsure<br>(stop)     |
| 8. Is the site properly remediated, does not require continued site management (other than institutional controls), and is suitable for delisting?  | <input type="checkbox"/> Yes<br>(Class: C)           | <input checked="" type="checkbox"/> No<br>(go to 9) | <input type="checkbox"/> Unsure<br>(stop)     |
| 9. Based upon investigation, is the degree of contamination such that the Site does not qualify to be placed on the Registry and that additional remedial work is not anticipated at this time? | <input type="checkbox"/> Yes<br>(Class: N)           | <input type="checkbox"/> No<br>(reevaluate)         | <input type="checkbox"/> Unsure<br>(stop)     |
| 10. Does insufficient information exist to properly classify the site?  | <input type="checkbox"/> Yes<br>(Class P)            | <input type="checkbox"/> No<br>(reevaluate)         | <input type="checkbox"/> Unsure<br>(stop)     |

Current Classification: P

Proposed Classification: 2

**Additional Information to be Considered:**

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic Fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion, and human contact. Currently the site is fenced, however the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

Jaspal Walia  
Project Manager Name/Title - Print

Jaspal Singh Walia 6/2/06  
Project Manager Name - Signature Date

Martin Doster  
RHWRE Name/Title - Print

Martin Doster 6/2/06  
RHWRE Name - Signature Date

**MALCOLM  
PIRNIE**

**DRAFT**

**SITE INVESTIGATION /  
REMEDIAL ALTERNATIVES  
REPORT**

**Former Incinerator Site  
Lackawanna, New York**

**Prepared BY:**

**MALCOLM PIRNIE, INC.**

**For:**

**THE CITY OF LACKAWANNA**

Submitted by:  
Malcolm Pirnie, Inc.  
40 Centre Drive  
Orchard Park, NY 14127

**NOVEMBER 2005**

# Introduction

SECTION

1

## 1.1 Purpose and Scope

---

On behalf of the City of Lackawanna, New York (City), Malcolm Pirnie has prepared this Site Investigation/Remedial Alternatives Report for the Site of the City's former municipal solid waste incinerators (the Site) located at the east end of Reddon Street in Lackawanna, Erie County, New York. The Site was investigated in accordance with the United States Environmental Protection Agency's (USEPA) Brownfields Assessment Program. The program is designed to support economic redevelopment through the identification, assessment, and cleanup of Brownfields properties. The purpose of the investigation is to evaluate environmental conditions at the Site, including:

- The extent and composition, both physical and chemical, of fill material present in the elevated ramp approach to the two incinerator buildings.
- Pre-demolition survey of the existing incinerator buildings for the presence of lead based painted, and asbestos containing materials (ACMs).
- The magnitude of contaminants at the Site, if present.
- The hydrogeologic characteristics of the Site (e.g., depth to saturated zone, hydraulic gradients, proximity to drinking water aquifers, flood plains and wetlands).
- The potential for migration of contaminants from the Site, and whether possible future migration may pose a threat to human health or the environment.
- The preliminary identification of potentially feasible remedial alternatives, which are protective of human health and the environment, based on community needs and end-use planning for the property.



- Planning to support revitalization of the property.

This report summarizes the findings of field activities conducted at the Site from April 4 – 29, 2005. Field activities were conducted in accordance with the USEPA-approved Site Investigation Work Plan, submitted by Malcolm Pirnie in November 2004, and a letter amendment to the Work Plan and QAPP dated March 22, 2005.

## **1.2 Site Description and Location**

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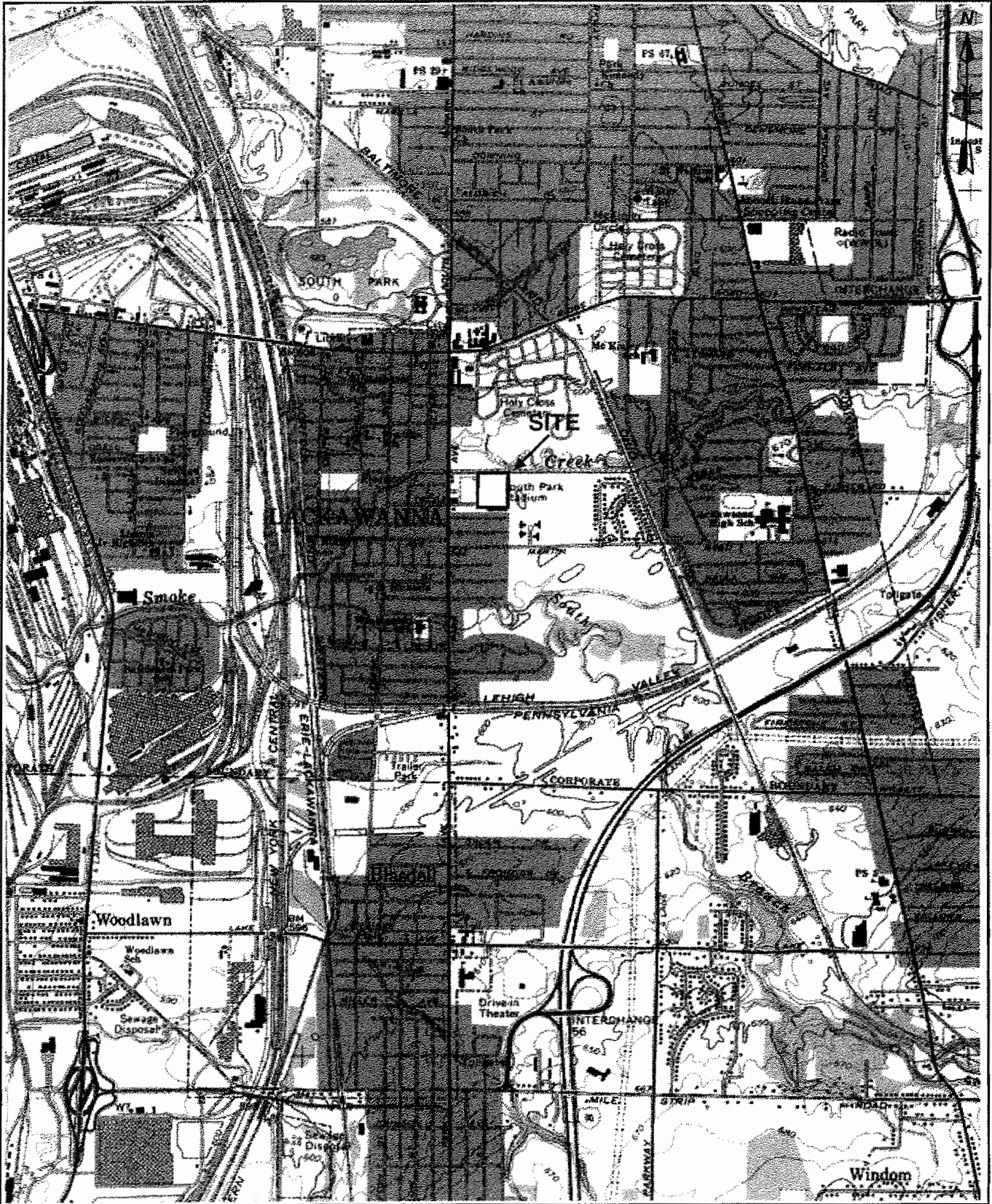
The Site includes approximately five acres of property surrounding the two former municipal solid waste incinerators located at the east end of Reddon Street in Lackawanna, Erie County, New York. Figure 1-1 identifies the location of the Site.

The Site is dominated by a large, ramp-like, mound of soil/fill that was incorporated into the construction of the two incinerators. The two incinerator buildings are no longer active, see Figure 1-2 for the Site layout. The fill ramp was constructed to provide truck access to the second story of the incinerator buildings. Over the years, the City has continued to add fill materials to the lateral edges of the fill ramp, widening the ramp to the east and west. The more recent fill materials originated from various City DPW projects, e.g., fire bricks removed during relining of the incinerators, and debris from street sweeping. The former incinerator buildings are used for equipment storage by the City's Department of Public Works. The basement floor of the newer incinerator building is also being used as a short-term dog holding kennel by the City dog warden.

## **1.3 Site Background and History**

---

The first incinerator building was reportedly constructed in 1927 on the southeast corner of the Site. Several buildings, including a barn, storage sheds, and a forge shop once occupied the southern portion of the Site, at the base of the fill mound, south of the old incinerator building. Figure 1-2 provides the outlines of the approximate locations of past structures on and near the Site. The incinerators were used to burn primarily municipal trash collected curbside throughout the City. Medical wastes, generated at the nearby Our Lady of Victory (OLV) Hospital, were also intermittently burned in the incinerators. According to interviews of former city employees, no industrial or drummed wastes were burned in the incinerators. Yard wastes along with any construction and demolition (C&D) materials were segregated from the municipal trash



Latitude:  
+42.819019°N  
Longitude:  
-078.823972°W

**Former Incinerator Site  
Lackawanna, New York**

**FIGURE 1-1  
SITE LOCATION MAP**

4852-001

July 2005

Veterinary

142.10-1-12.111

Creek

Ron Jaworski Stadium

SITE

142.14-1-4.1

142.63-1-23

142.63-1-9

142.14-1-5.11

142.63-1-10.1

142.63-2-29

142.63-2-30

142.63-2-30

142.63-3-31.1

142.63-3-37

142.63-3-36

142.71-1-22

142.71-1-30

142.18-1-17.1

142.18-1-17.1

142.18-1-17.1

142.18-1-17.1

142.18-1-17.1

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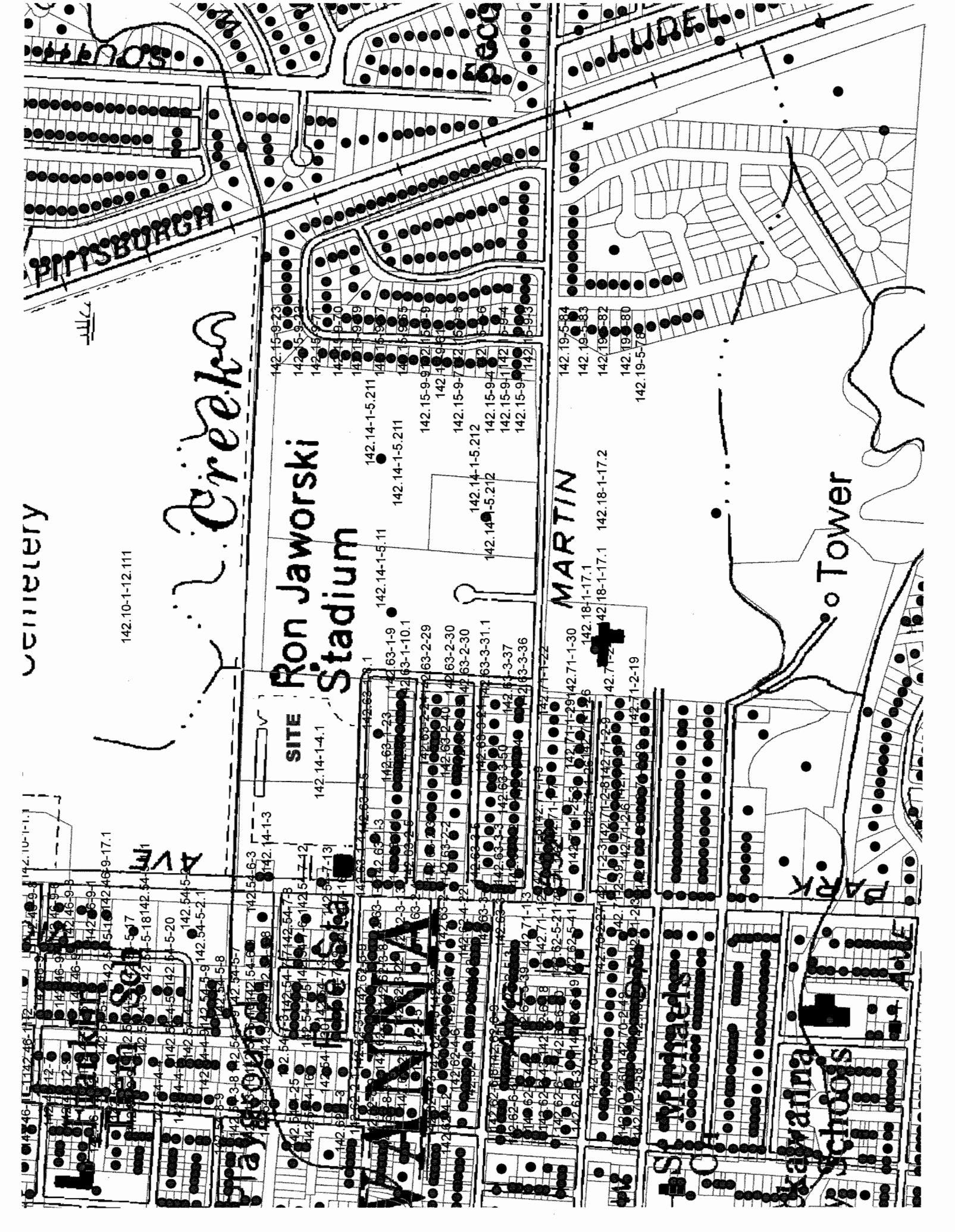
142.18-1-17.1

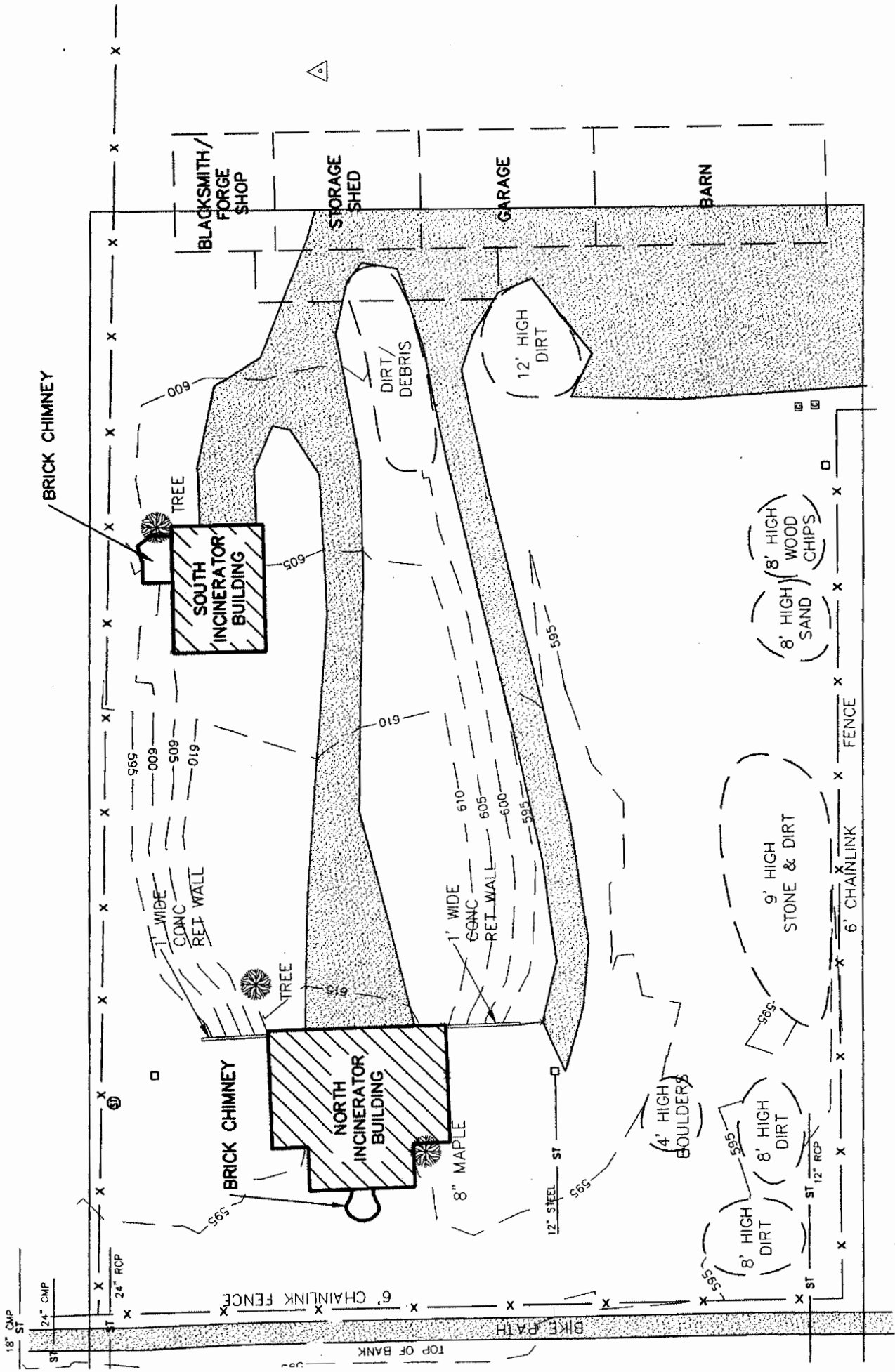
142.18-1-17.1

142.18-1-17.1

142.18-1-17.1

142.18-1-17.1





SCALE: 1 INCH = 50 FEET



and disposed of offsite. The first incinerator was used until approximately 1950 when a new larger incinerator was constructed at the north central area of the Site. Both incinerators were built into the same soil/fill mound, which forms a ramp-like feature on the Site. The ramp was reportedly constructed with slag, potentially obtained from Bethlehem Steel, and some incinerator ash, which was used occasionally to fill in, tire ruts. Findings of this investigation; however, indicate that the ramp is composed mostly of soil. The ramp allowed the trash trucks to back up and dump the trash into the incinerators, which were built at grade level. Trucks would then haul away the incinerator ash for off-site disposal. Occasionally, ash was stockpiled outside the incinerator building for later offsite disposal. Following its closing, the ground floor of the older incinerator building was filled with incinerator ash, and the second floor was converted to a carpenter and collision shop. The second incinerator was deactivated in approximately 1980 when the City ended the practice of incinerating its own trash and began contract hauling and disposal of its municipal wastes using private solid waste contractors. No known previous environmental studies have been performed at the incinerator Site.

## **1.4 Physical Setting**

---

### **1.4.1 Land Use and Demography**

The Site is located in an urban area, within the city limits of Lackawanna, New York, and surrounds the City's former municipal solid waste incinerators. The portions of the Site immediately surrounding the incinerator buildings are currently used by the City's DPW for stockpiling soils and fill materials, and equipment storage. The incinerator buildings are used for equipment storage and repair. The basement of the north incinerator building is also used by the City's animal control officer for the temporary caging of animals.

Properties surrounding the Site consist of mixed commercial and residential properties. A public access, blacktop paved, walking path is located along the Site's northern property boundary, adjacent to the North Branch of Smokes Creek. The Holy Cross Cemetery is north of Smokes Creek. Immediately west of the Site is the Veterans Memorial, athletic fields and stadium. Immediately south of the Site, is the City's DPW

facilities. East of the Site, beyond a site fence, are an overgrown vacant field and emergent woods with evidence of fill material.

### **1.4.2 Topography and Drainage**

The topography at the Site is dominated by a large mound of fill constructed for use as a ramp to access the northern-most incinerator building. Elevations of the Site range from approximately 585 feet to 615 feet above mean sea level (AMSL). Surface water drainage flows radially from the elevated fill ramp to drainage ditches, storm water catch basins which eventually drain northward into Smokes Creek.

### **1.4.3 Soils**

The Soil Survey of Erie County, New York, produced and distributed by the United States Department of Agriculture, Soil Conservation Service, identified soils at the Site as Dumps (Dp) a miscellaneous area filled with rubbish and debris (USDA-SCS, 1986). Since this Site is classified as Dumps, variations and deviations in Site characteristics resulting from human activity are likely.

The Niagara Sheet of the Surficial Geologic Map of New York was used to identify characteristics of the surface geology at the Site (Caldwell et al., 1986). Lacustrine silt and clay deposits associated with proglacial lakes were identified in the area underlying the Site. These soil types are listed as having thicknesses of up to 100 meters.

### **1.4.4 Regional Geology and Hydrogeology**

The Niagara Sheet of the Geologic Map of New York was reviewed to determine the underlying bedrock at the Site (Fisher et al., 1970). Levanna Shale or Stafford Limestone members underlie the overburden at the Site and a majority of the surrounding area. Bedrock is not present at the surface or in outcrop at the Site.

TABLE 6-1  
SUMMARY OF SUBSURFACE SOIL/FILL DATA AND COMPARISON TO SCREENING CRITERIA

FORMER INCINERATOR SITE  
LACKAWANNA, NEW YORK

| Detected compounds                                    | Frequency of Detection | Range of Detected Concentrations <sup>(1)</sup> | NYSDEC Soil Cleanup Objectives <sup>(2)</sup> | Urban Background Concentrations <sup>(3,4)</sup> |
|---|------------------------|---|---|--|
| <b>Volatile Organic Compounds - VOCs (ug/kg)</b>      |                        |   |   |  |
| Acetone   | 2 / 7                  | 97 - 250  | 200   | NA   |
| 2-Butanone  | 2 / 7                  | 11 - 27   | 300   | NA   |
| Carbon disulfide                                      | 3 / 7                  | 4.2 - 8.8                                       | 2,700   | NA   |
| Ethylbenzene  | 2 / 7                  | 1.4 - 1.5                                       | 5,500   | NA   |
| Methylcyclohexane                                     | 1 / 7                  | 4.6   | NA  | NA   |
| Methylene chloride                                    | 1 / 7                  | 14  | 100   | NA   |
| Tetrachloroethene                                     | 2 / 7                  | 1.3 - 1.5                                       | 1,400   | NA   |
| Toluene   | 7 / 7                  | 1.4 - 10  | 1,500   | NA   |
| Xylenes, total  | 3 / 7                  | 3 - 7.9   | 1,200   | NA   |
| <b>Semivolatile Organic Compounds - SVOCs (ug/kg)</b> |                        |   |   |  |
| Acenaphthylene  | 1 / 7                  | 80  | 41,000  | NA   |
| Anthracene  | 4 / 7                  | 64 - 160  | 50,000 <sup>(5)</sup>                         | NA   |
| Benzo(a)anthracene                                    | 6 / 7                  | 90 - 1,600                                      | 224 or MDL                                    | 169 - 59,000                                     |
| Benzo(a)pyrene  | 6 / 7                  | 88 - 1,700                                      | 61  | 165 - 220  |
| Benzo(b)fluoranthene                                  | 7 / 7                  | 93 - 1,900                                      | 1,100   | 15,000 - 62,000                                  |
| Benzo(g,h,i)perylene                                  | 4 / 7                  | 81 - 190  | 50,000 <sup>(5)</sup>                         | 900 - 47,000                                     |
| Benzo(k)fluoranthene                                  | 5 / 7                  | 100 - 1,900                                     | 1,100   | 300 - 26,000                                     |
| Bis(2-ethylhexyl) phthalate                           | 4 / 7                  | 110 - 1,800                                     | 50,000 <sup>(5)</sup>                         | NA   |
| Carbazole   | 1 / 7                  | 170   | NA  | NA   |
| Chrysene  | 6 / 7                  | 95 - 1,900                                      | 400   | 251 - 640  |
| Di-n-butylphthalate                                   | 2 / 7                  | 71 - 1,300                                      | 8,100   | NA   |
| Fluoranthene  | 7 / 7                  | 130 - 2,200                                     | 50,000 <sup>(5)</sup>                         | 200 - 166,000                                    |
| Indeno(1,2,3-c,d)pyrene                               | 3 / 7                  | 57 - 61   | 3,200   | 8,000 - 61,000                                   |
| Phenanthrene  | 6 / 7                  | 72 - 1,900                                      | 50,000 <sup>(5)</sup>                         | NA   |
| Pyrene  | 6 / 7                  | 140 - 2,500                                     | 50,000 <sup>(5)</sup>                         | 145 - 147,000                                    |
| <b>Pesticides/PCBs (ug/kg)</b>                        |                        |   |   |  |
| PCBs, total   | 2 / 7                  | 93 - 800  | 10,000 <sup>(6)</sup>                         | NA   |
| <b>Inorganics (mg/kg)</b>                             |                        |   |   |  |
| Aluminum  | 7 / 7                  | 9,550 - 14,900                                  | SB  | 33,000   |
| Antimony  | 5 / 7                  | 2.5 - 19.3                                      | SB  | <1 - 8.8 <sup>(7)</sup>                          |
| Arsenic   | 7 / 7                  | 4.41 - 38.9                                     | 7.5 or SB                                     | 3 - 12 <sup>(8)</sup>                            |
| Barium  | 7 / 7                  | 118 - 727                                       | 300 or SB                                     | 15 - 600   |
| Beryllium   | 7 / 7                  | 0.408 - 3.02                                    | 0.16 or SB                                    | 0 - 1.75   |
| Cadmium   | 6 / 7                  | 0.298 - 6.2                                     | 1 or SB                                       | 0.1 - 1  |
| Calcium   | 7 / 7                  | 31,900 <sup>(9)</sup> - 135,000 <sup>(9)</sup>  | SB  | 130 - 35,000                                     |
| Chromium  | 7 / 7                  | 13.1 - 101                                      | 10 or SB                                      | 1.5 - 40 <sup>(8)</sup>                          |
| Cobalt  | 7 / 7                  | 2.94 - 21.6                                     | 30 or SB                                      | 2.5 - 60 <sup>(8)</sup>                          |
| Copper  | 7 / 7                  | 16.1 - 703                                      | 25 or SB                                      | 1 - 50   |
| Cyanide   | 2 / 7                  | 0.75 - 1.05                                     | NA  | NA   |
| Iron  | 7 / 7                  | 13,100 <sup>(9)</sup> - 172,000 <sup>(9)</sup>  | 2,000 or SB                                   | 2,000 - 550,000                                  |
| Lead  | 7 / 7                  | 60.8 - 1820                                     | 400 <sup>(10)</sup>                           | 200 - 500  |
| Magnesium   | 7 / 7                  | 3,810 <sup>(9)</sup> - 22,100 <sup>(9)</sup>    | SB  | 100 - 5,000                                      |
| Manganese   | 7 / 7                  | 750 - 2,500                                     | SB  | 50 - 5,000                                       |
| Mercury   | 5 / 7                  | 0.046 - 0.453                                   | 0.1   | 0.001 - 0.2                                      |
| Nickel  | 7 / 7                  | 10.1 - 181                                      | 13 or SB                                      | 0.5 - 25   |
| Potassium   | 7 / 7                  | 1,210 <sup>(9)</sup> - 2,160 <sup>(9)</sup>     | SB  | 8,500 - 43,000 <sup>(8)</sup>                    |
| Selenium  | 7 / 7                  | 0.46 - 6.45                                     | 2 or SB                                       | 0.1 - 3.9  |
| Silver  | 4 / 7                  | 0.476 - 8.2                                     | SB  | ND - 5.0 <sup>(11)</sup>                         |
| Sodium  | 7 / 7                  | 317 <sup>(9)</sup> - 3,140 <sup>(9)</sup>       | SB  | 6,000 - 8,000                                    |
| Thallium  | 2 / 7                  | 0.509 - 1.29                                    | SB  | NA   |
| Vanadium  | 7 / 7                  | 9.7 - 40.3                                      | 150 or SB                                     | 1 - 300  |
| Zinc  | 7 / 7                  | 109 - 2,300                                     | 20 or SB                                      | 9 - 50   |

Notes:

Only those analytes detected at a minimum of one location and greater than the reporting limit are shown.

(1) The maximum concentration was used for duplicate samples

(2) Recommended Soil Cleanup Objectives, New York State Dept. of Environmental Conservation TAGM 4046, Dec. 2000

(3) Eastern USA Background, NYSDEC TAGM 4046, Dec. 2000

(4) PAH background concentrations are from the Agency for Toxic Substances and Disease Registry, 1995

(5) NYSDEC TAGM, Recommended Soil Cleanup Objectives, Dec. 2000, Total SVOCs < 500 ppm, Individual SVOCs < 50 ppm

(6) NYSDEC TAGM, Recommended Soil Cleanup Objectives, Dec. 2000, for surface soil is 1,000 ug/kg

(7) Value from Elements in North American Soils, eastern USA soils, Dragun and Chiasson, 1991

(8) New York State background, NYSDEC TAGM 4046, Dec. 2000

(9) This concentration is below the human health essential nutrient screening criterion

(10) USEPA soil screening level for residential soils

(11) Value from Elements in North American Soils, soils of the conterminous USA, Dragun and Chiasson, 1991

NA - Not Applicable or Not Available

SB - Site Background

**TABLE 6-2  
SUMMARY OF GROUNDWATER DATA AND COMPARISON TO SCREENING CRITERIA**

**FORMER INCINERATOR SITE  
LACKAWANNA, NEW YORK**

| <b>Detected compounds</b> | <b>Frequency of Detection</b> | <b>Range of Detected Concentrations <sup>(1)</sup></b> | <b>NYSDEC Class "GA" Standards <sup>(2)</sup></b> |
|---------------------------|-------------------------------|--|---|
| <i>Inorganics (ug/L)</i>  |                               |  |   |
| Aluminum                  | 3 / 3                         | 311 - 2180   | NA  |
| Arsenic                   | 2 / 3                         | 17.3 - 43.6  | 25  |
| Barium                    | 3 / 3                         | 49.7 - 230   | 1,000   |
| Beryllium                 | 3 / 3                         | 0.11 - 0.235   | 3 <sup>(3)</sup>                                  |
| Calcium                   | 3 / 3                         | 67,300 <sup>(4)</sup> - 258,000 <sup>(4)</sup>         | NA  |
| Chromium                  | 3 / 3                         | 0.58 - 2.68  | 50  |
| Cobalt                    | 3 / 3                         | 0.875 - 4.14   | NA  |
| Copper                    | 3 / 3                         | 5.4 - 10.7   | 200   |
| Iron                      | 3 / 3                         | 880 <sup>(4)</sup> - 4,600 <sup>(4)</sup>              | NA  |
| Magnesium                 | 3 / 3                         | 39,600 <sup>(4)</sup> - 102,000 <sup>(5)</sup>         | 35,000 <sup>(3)</sup>                             |
| Manganese                 | 3 / 3                         | 149 - 750  | NA  |
| Mercury                   | 2 / 3                         | 0.05   | 0.7   |
| Nickel                    | 3 / 3                         | 2.37 - 8.57  | 100   |
| Potassium                 | 3 / 3                         | 2,070 <sup>(4)</sup> - 4,770 <sup>(4)</sup>            | NA  |
| Sodium                    | 3 / 3                         | 39,800 <sup>(4)</sup> - 441,000 <sup>(4)</sup>         | 20,000  |
| Thallium                  | 1 / 3                         | 3.61   | 0.5 <sup>(3)</sup>                                |
| Vanadium                  | 3 / 3                         | 1.25 - 3.58  | NA  |
| Zinc                      | 3 / 3                         | 28.9 - 55.0  | 2,000 <sup>(3)</sup>                              |

**Notes:**

*Only those analytes detected at a minimum of one location and greater than the reporting limit are shown.*

*(1) The maximum concentration was used for duplicate samples*

*(2) Class GA Ambient Water Quality Standards and Guidance Values from NYSDEC TOGS 1.1.1, June 1998, and April 2000 Addendum*

*(3) Values represent Guidance Values*

*(4) This concentration is below the human health essential nutrient screening criterion*

*(5) Value exceeded the human health essential nutrient screening criterion of 80,000 ug/L*

*NA - Not Applicable or Not Available*



**TABLE 6-3  
SUMMARY OF SEDIMENT DATA AND COMPARISON TO SCREENING CRITERIA**

**FORMER INCINERATOR SITE  
LACKAWANNA, NEW YORK**

| Detected compounds                                    | Frequency of Detection | Range of Detected Concentrations <sup>(1)</sup> | NYSDEC Soil Cleanup Objectives <sup>(2)</sup> | Urban Background Concentrations <sup>(3)</sup> | Site Upstream Sample |
|---|------------------------|---|---|--|----------------------|
| <i>Semivolatile Organic Compounds - SVOCs (ug/kg)</i> |                        |   |   |  |                      |
| Bis(2-ethylhexyl)phthalate                            | 1 / 2                  | 340   | 50,000 <sup>(4)</sup>                         | NA   | ND                   |
| <i>Inorganics (mg/kg)</i>                             |                        |   |   |  |                      |
| Aluminum  | 2 / 2                  | 7,970 - 12,500                                  | SB  | 33,000   | 7,220                |
| Antimony  | 1 / 2                  | 53.7  | SB  | <1 - 8.8 <sup>(5)</sup>                        | ND                   |
| Arsenic   | 2 / 2                  | 6.15 - 35                                       | 7.5 or SB                                     | 3 - 12 <sup>(6)</sup>                          | 5.15                 |
| Barium  | 2 / 2                  | 75.7 - 199                                      | 300 or SB                                     | 15 - 600                                       | 61                   |
| Beryllium   | 2 / 2                  | 0.504 - 1.01                                    | 0.16 or SB                                    | 0 - 1.75                                       | 0.443                |
| Cadmium   | 1 / 2                  | 1.28  | 1 or SB                                       | 0.1 - 1  | ND                   |
| Calcium   | 2 / 2                  | 18600 <sup>(7)</sup> - 56700 <sup>(7)</sup>     | SB  | 130 - 35,000                                   | 16,100               |
| Chromium  | 2 / 2                  | 14.2 - 45.7                                     | 10 or SB                                      | 1.5 - 40 <sup>(6)</sup>                        | 12.2                 |
| Cobalt  | 2 / 2                  | 8.82 - 12.2                                     | 30 or SB                                      | 2.5 - 60 <sup>(6)</sup>                        | 7.69                 |
| Copper  | 2 / 2                  | 29.8 - 160                                      | 25 or SB                                      | 1 - 50   | 25.1                 |
| Iron  | 2 / 2                  | 17500 <sup>(7)</sup> - 99000 <sup>(7)</sup>     | 2,000 or SB                                   | 2,000 - 550,000                                | 15,500               |
| Lead  | 2 / 2                  | 23.5 - 3,580                                    | 400 <sup>(6)</sup>                            | 200 - 500                                      | 22.7                 |
| Magnesium   | 2 / 2                  | 5190 <sup>(7)</sup> - 10500 <sup>(7)</sup>      | SB  | 100 - 5,000                                    | 4,780                |
| Manganese   | 2 / 2                  | 672 - 1,300                                     | SB  | 50 - 5,000                                     | 546                  |
| Mercury   | 2 / 2                  | 0.055 - 0.129                                   | 0.1   | 0.001 - 0.2                                    | 0.054                |
| Nickel  | 2 / 2                  | 24.3 - 34.2                                     | 13 or SB                                      | 0.5 - 25                                       | 21.5                 |
| Potassium   | 2 / 2                  | 989 <sup>(7)</sup> - 2270 <sup>(7)</sup>        | SB  | 8,500 - 43,000 <sup>(6)</sup>                  | 1,040                |
| Selenium  | 1 / 2                  | 1.3   | 2 or SB                                       | 0.1 - 3.9                                      | ND                   |
| Silver  | 1 / 2                  | 1.47  | SB  | ND - 5.0 <sup>(9)</sup>                        | ND                   |
| Sodium  | 2 / 2                  | 186 <sup>(7)</sup> - 1640 <sup>(7)</sup>        | SB  | 6,000 - 8,000                                  | 244                  |
| Thallium  | 1 / 2                  | 1.71  | SB  | NA   | 0.668                |
| Vanadium  | 2 / 2                  | 15.5 - 19.4                                     | 150 or SB                                     | 1 - 300  | 14.1                 |
| Zinc  | 2 / 2                  | 122 - 671                                       | 20 or SB                                      | 9 - 50   | 113                  |

**Notes:**

Only those analytes detected at a minimum of one location and greater than the reporting limit are shown.

Since there are no NYSDEC sediment screening criteria for the protection of human health, soil screening criteria were used

(1) The maximum concentration was used for duplicate samples

(2) Recommended Soil Cleanup Objectives, New York State Dept. of Environmental Conservation TAGM 4046, Dec. 2000

(3) Eastern USA Background, NYSDEC TAGM 4046, Dec. 2000

(4) NYSDEC TAGM, Recommended Soil Cleanup Objectives, Dec. 2000, Total SVOCs < 500 ppm, Individual SVOCs < 50 ppm

(5) Value from Elements in North American Soils, eastern USA soils, Dragun and Chiasson, 1991

(6) New York State background, NYSDEC TAGM 4046, Dec. 2000

(7) This concentration is below the human health essential nutrient screening criterion

(8) USEPA soil screening level for residential soils

(9) Value from Elements in North American Soils, soils of the conterminous USA, Dragun and Chiasson, 1991

NA - Not Applicable or Not Available

ND - Not Detected

SB - Site Background

**TABLE 6-4  
SUMMARY OF ASH SAMPLE DATA AND COMPARISON TO SCREENING CRITERIA**

**FORMER INCINERATOR SITE  
LACKAWANNA, NEW YORK**

| Detected compounds        | Frequency of Detection | Range of Detected Concentrations <sup>(1)</sup> | NYSDEC Soil Cleanup Objectives <sup>(2)</sup> | Urban Background Concentrations <sup>(3)</sup> |
|---------------------------|------------------------|---|---|--|
| <i>Inorganics (mg/kg)</i> |                        |   |   |  |
| Aluminum                  | 3 / 3                  | 9,270 - 12,300                                  | SB  | 33,000   |
| Antimony                  | 3 / 3                  | 1.28 - 9.76                                     | SB  | <1 - 8.8 <sup>(4)</sup>                        |
| Arsenic                   | 3 / 3                  | 9.78 - 13.3                                     | 7.5 or SB                                     | 3 - 12 <sup>(5)</sup>                          |
| Barium                    | 3 / 3                  | 106 - 798                                       | 300 or SB                                     | 15 - 600                                       |
| Beryllium                 | 3 / 3                  | 0.24 - 1.09                                     | 0.16 or SB                                    | 0 - 1.75                                       |
| Cadmium                   | 3 / 3                  | 0.586 - 7.31                                    | 1 or SB                                       | 0.1 - 1  |
| Calcium                   | 3 / 3                  | 40,200 <sup>(6)</sup> - 47,800 <sup>(6)</sup>   | SB  | 130 - 35,000                                   |
| Chromium                  | 3 / 3                  | 26.3 - 51.9                                     | 10 or SB                                      | 1.5 - 40 <sup>(5)</sup>                        |
| Cobalt                    | 3 / 3                  | 6.86 - 7.70                                     | 30 or SB                                      | 2.5 - 60 <sup>(5)</sup>                        |
| Copper                    | 3 / 3                  | 72 - 56,400                                     | 25 or SB                                      | 1 - 50   |
| Iron                      | 3 / 3                  | 31,600 <sup>(6)</sup> - 55,600 <sup>(6)</sup>   | 2,000 or SB                                   | 2,000 - 550,000                                |
| Lead                      | 3 / 3                  | 238 - 23,600                                    | 400 <sup>(7)</sup>                            | 200 - 500                                      |
| Magnesium                 | 3 / 3                  | 3,490 <sup>(6)</sup> - 7,990 <sup>(6)</sup>     | SB  | 100 - 5,000                                    |
| Manganese                 | 3 / 3                  | 523 - 749                                       | SB  | 50 - 5,000                                     |
| Mercury                   | 3 / 3                  | 0.052 - 0.127                                   | 0.1   | 0.001 - 0.2                                    |
| Nickel                    | 3 / 3                  | 20.6 - 42.1                                     | 13 or SB                                      | 0.5 - 25                                       |
| Potassium                 | 3 / 3                  | 554 <sup>(6)</sup> - 2,440 <sup>(6)</sup>       | SB  | 8,500 - 43,000 <sup>(5)</sup>                  |
| Selenium                  | 2 / 3                  | 0.532 - 0.672                                   | 2 or SB                                       | 0.1 - 3.9                                      |
| Silver                    | 2 / 3                  | 0.695 - 1.64                                    | SB  | ND - 5.0 <sup>(8)</sup>                        |
| Sodium                    | 3 / 3                  | 556 <sup>(6)</sup> - 39,900 <sup>(6)</sup>      | SB  | 6,000 - 8,000                                  |
| Thallium                  | 3 / 3                  | 1.69 - 2.95                                     | SB  | NA   |
| Vanadium                  | 3 / 3                  | 16.9 - 30.6                                     | 150 or SB                                     | 1 - 300  |
| Zinc                      | 3 / 3                  | 451 - 146,000                                   | 20 or SB                                      | 9 - 50   |

**Notes:**

*Only those analytes detected at a minimum of one location and greater than the reporting limit are shown.*

*(1) The maximum concentration was used for duplicate samples*

*(2) Recommended Soil Cleanup Objectives, New York State Dept. of Environmental Conservation TAGM 4046, Dec. 2000*

*(3) Eastern USA Background, NYSDEC TAGM 4046, Dec. 2000*

*(4) Value from Elements in North American Soils, eastern USA soils, Dragun and Chiasson, 1991*

*(5) New York State background, NYSDEC TAGM 4046, Dec. 2000*

*(6) This concentration is below the human health essential nutrient screening criterion*

*(7) USEPA soil screening level for residential soils*

*(8) Value from Elements in North American Soils, soils of the conterminous USA, Dragun and Chiasson, 1991*

*NA - Not Applicable or Not Available*

*SB - Site Background*

# Reuse Planning

SECTION

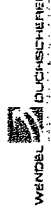
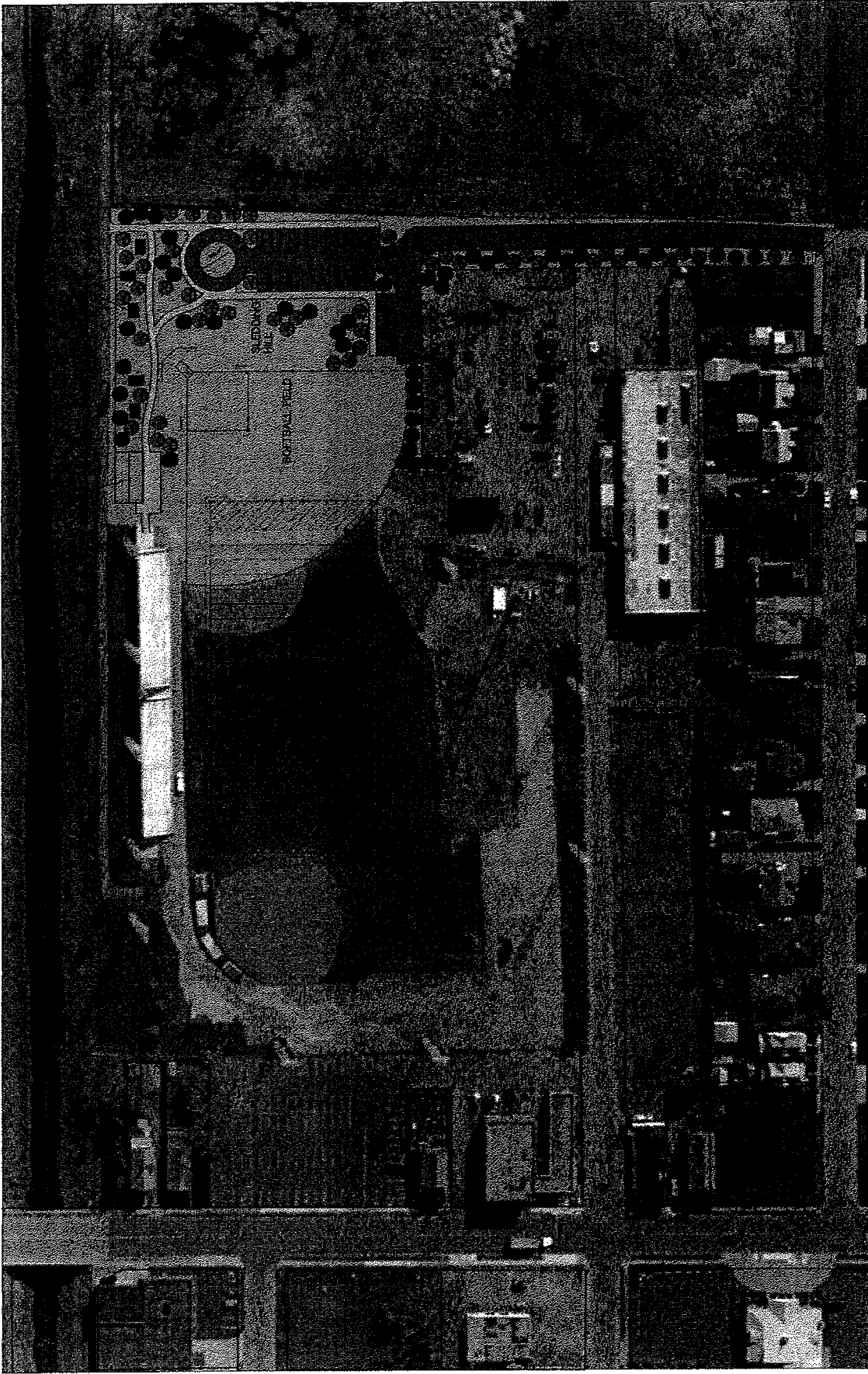
**8**

Based on the findings of the Site Investigation, the qualitative risk assessment and meetings with representatives of the City of Lackawanna and feedback from local residents, conceptual redevelopment plans were prepared. Wendel Duchscherer Architects and Engineers as subcontractor to Malcolm Pirnie was tasked to prepare two different reuse plans for the Former Incinerator Site. Both reuse plans are for recreational use that would enhance the existing Veterans Memorial sports stadium and the nearby walking path. The two reuse plans are illustrated as Figures 8-1 and 8-2 and are described below:

## **Reuse Plan Option A – Softball Facility**

Under Option A, the Former Incinerator site would be redeveloped to add up to four new and related recreational uses, see Figure 8-1. These include:

1. A softball field that would replace the one that used to exist on the eastern end of what is now an improved football field. Some of the outfield of the proposed softball field would overlap the football field but the actual softball diamond would not overlap the football field.
2. A concession stand for use during special stadium events and softball games.
3. A picnic area with trees, walking paths, and shelters for small groups of park users.
4. Additional paved parking for users of the stadium and related recreational facilities.



**MALCOLM  
PIRNIE**

OCTOBER 2005

4852-001

**FORMER INCINERATOR SITE  
CITY OF LACKAWANNA, NY**  
SITE INVESTIGATION/REMEDIAL ALTERNATIVES REPORT

**FIGURE 8-1  
CONCEPTUAL REUSE PLAN  
OPTION A**

### **Reuse Plan Option B – Multi-Use Trail System**

Under Option B, the Former Incinerator site would be redeveloped similar to Option A above but without the softball field and a larger system of walking trails and an optional sledding hill. Under Option B more trees would also be planted and the trail system would be more complementary to the existing walking path, See Figure 8-2.








**MALCOLM  
PIRNIE**

**FORMER INCINERATOR SITE**  
 CITY OF LACKAWANNA, NY  
 SITE INVESTIGATION/REMEDIAL ALTERNATIVES REPORT

**FIGURE 8-2**  
**CONCEPTUAL REUSE PLAN**  
**OPTION B**

OCTOBER 2005 4852-001

# Conclusions and Recommendations

SECTION

9

## 9.1 Conclusions

---

The site investigation of the Former Incinerator Site provided an environmental characterization of subsurface soil/fill, incinerator ash, sediment, groundwater, and site structures sufficient to evaluate their potential risk to human health. A summary of conclusions is provided below:

### 9.1.1 Hydrogeology

Disturbed soil/fill was encountered at each of the seven boring locations drilled across the Site. The soil/fill is described as mostly silty clay with varying amounts of slag and gravel and trace amounts of glass cinders, brick, and ash. Fill thicknesses ranged from approximately two to seven feet off of the fill mound to over 20 feet near the top of the fill mound. Beneath the soil/fill is a relatively flat contact with the underlying natural lake deposits of silt and clay. Fine sand lenses were observed in the northwest corner of the Site at well MW-1 at depths of 3.5 and 6.5 feet bgs. These sand lenses, along with observed vertical fractures in the underlying silty clay, combine to cause an anomalous groundwater high in that area. Otherwise groundwater is mapped to flow across the Site from south to north into the creek.

### 9.1.2 Environmental Media

#### 9.1.2.1 *Subsurface Soil/Fill*

Evaluation of analytical results of subsurface soil/fill samples indicates that there are PAHs in the soil/fill at concentrations slightly above TAGM and typical urban background levels. PAHs at such levels are not uncommon in urban settings even without

fill material present. Also, when totaled, the PAHs in subsurface soil/fill samples do not exceed the TAGM value for total SVOCs.

Several metals were present in the subsurface soil/fill at concentrations above both the TAGM 4046 criteria and eastern US background levels. Most notably were copper, lead, and zinc which were present at concentrations two and three orders of magnitude higher than the upper limit of the eastern US background range.

VOCs, pesticides, and PCBs were not detected in any of the subsurface soil/fill samples at concentrations above TAGM values.

#### ***9.1.2.2 Incinerator Ash***

Several metals were present at concentrations significantly above both the TAGM 4046 criteria and eastern US background levels. Most notable of these are copper, lead and zinc which were present at concentrations two to four orders of magnitude greater than the TAGM values and the upper limit of the range detected in eastern US background soils. These same three metals were also present at somewhat less elevated levels in subsurface soil/fill samples which are likely the result of ash within the subsurface soil/fill material. The incinerator ash samples were also analyzed for dioxin/furans but none were present above method detection limits.

#### ***9.1.2.3 Sediment***

Evaluation of analytical results of sediment samples indicates that the Site is not currently significantly impacting Smokes Creek. However, several metals are present above the NYSDEC sediment criteria in sediment located at the storm water outfall, up the south bank from Smokes Creek. Over time these affected sediments could potentially migrate downhill and impact surface water and sediment in Smokes Creek.

#### ***9.1.2.4 Groundwater***

No organics were present in the groundwater samples at concentrations above analytical method detection limits. Six metals were detected slightly above groundwater standards in one or more groundwater samples. Most prevalent and concentrated were three common nutrients iron, magnesium, and sodium.



### 9.1.2.5 *Lead Paint and Asbestos*

Overall the lead paint will likely not require remediation if the incinerator buildings are to be demolished. The demolition debris will be sampled as a composite and the small percentage of paint within the debris pile will likely be too small to effect the lead concentration of the rest of the debris pile such that special handling for lead is required.

Although the amount of asbestos was found to be low overall, removal of the asbestos will be required prior to demolition of the two incinerator buildings.

### 9.1.3 Risk Assessment

---

The qualitative human health evaluation indicates that in the current and future scenario, exposure to constituents of potential concern (COPC) present in incinerator ash and surface soil/fill is likely for City employees that work on the Site. Also, in the future scenario, assuming no remediation, is performed; construction/utility workers are likely to be exposed to COPC present in incinerator ash, surface soil/fill, and subsurface soil/fill.

Similar exposure is possible for current/future trespassers and future Site workers and on-site recreationalists. Exposure to COPC in surface water, sediment, and biota (fish) is possible for the current/future off-site recreationalist who fishes in and along Smokes Creek.

## 9.2 Recommendations

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Based on the findings of the Site Investigation and the results of the qualitative human health evaluation, the following recommendations are offered:

***Incinerator Ash:*** Because of the high levels of heavy metals found in the ash located beneath the older incinerator building, this material should be removed and properly disposed off-site.

***Sediment:*** Sediments in smokes creek show only slight evidence of Site effect. However sediment at the storm water outfall (above the usual elevation of the creek) contains more significant concentrations of metals that appear to be Site derived.

Therefore, to prevent these sediments from effecting the surface water and sediment of Smokes Creek in the future, removal and off-site disposal of the sediments directly below the storm water outfall is recommended.

**Asbestos:** Prior to reuse or demolition of the two incinerator buildings, asbestos containing materials should be removed and properly disposed off-site.

**Surface and Subsurface Soil/Fill:** Because of the presence of elevated metals and PAHs in the on-site soil/fill, future development of the Site should include provisions to either remove or cover the soil/fill to minimize human exposure. Also, if future plans include leaving the soil/fill on-site, even if covered, proper handling by implementation of a soil/fill management plan and safety measures should be followed to minimize human exposure during development, Site use, and maintenance activities on Site.



# OFFICE OF THE MAYOR CITY OF LACKAWANNA

**NORMAN L. POLANSKI, JR.**  
**Mayor**



January 12, 2006

**RECEIVED**

JAN 18 2006

NYSDEC REG 9  
FOIL  
✓ REL UNREL

Martin Doster, P.E.  
Regional Hazardous Waste Engineer  
NYSDEC – Region 9  
270 Michigan Avenue  
Buffalo, N.Y. 14203

RE: Clean-up of Former City Incinerator Site

Dear Mr. Doster:

Through conversations with DEC staff, the City's Brownfields Redevelopment Coordinator and our technical consultants, it appears that the former City Incinerator Site may be placed on the New York State Superfund List due to the presence of environmental contaminants. In anticipation of that action I am writing to request forms and instructions used to apply for assistance from New York State as described in 6NYCRR Part 375-3.2(e). As you know Lackawanna is under substantial economic constraints at this time, and it is paramount that we explore any type of state and federal assistance to help us remediate environmental conditions in the City.

Thank you for your continued interest in the City of Lackawanna's environmental and economic health.

Sincerely,

A handwritten signature in cursive script that reads "Norman L. Polanski, Jr.".

Norman L. Polanski, Jr.  
Mayor

9/5/64

o - DSS -

~~x - G. Palumbo~~

Aircraft Group, Moog Inc. • East Aurora, New York 14052-0018  
Telephone: 716/652-2000 • Fax: 716/652-0633

**MOOG**

MP&EE Ltr.#016-06  
April 20, 2006

RECEIVED

APR 24 2006

NYSDEC REG 9  
FOIL

✓ REL — UNREL

Mr. Maurice Moore  
Division of Hazardous Waste Remediation  
New York State Dept. of Environmental Conservation  
270 Michigan Avenue  
Buffalo, New York 14203-2999

Re: Moog, Inc. Plant 11 Groundwater Treatment system –  
Performance Monitoring Report for March 2006 Sampling Event

Dear Mr. Moore:

In accordance with our March 1997 Groundwater Treatment System Performance Monitoring Plan, we have summarized the results of our March 2006 monthly performance monitoring of the Plant 11 groundwater collection and treatment system. The monitoring event included collection of the treatment system effluent, and groundwater elevation monitoring at each of the on-site monitoring wells. A discussion of the sampling procedures and results is presented below.

#### TREATMENT SYSTEM MONITORING

A grab sample was collected from the air stripper effluent sample port on March 17, 2006. The sample was collected in laboratory-supplied, precleaned and prepreserved sample vials, cooled to 4°C, and transported to the analytical laboratory under chain-of-custody command for analysis of 8260 Target Compound List (TCL) VOCs, including Freon 113. Temperature and pH were also measured during sample collection.

Analytical results are summarized in Table 1, and the laboratory data package is attached. No VOCs greater than 10 parts per billion were detected in the air stripper effluent. In addition, laboratory method blank and surrogate spike recovery data were reviewed and found to be within acceptable limits. Thus, all parameters are in compliance with our SPDES discharge limits for Outfall 004.

#### MONITORING WELL ELEVATION DATA

Groundwater elevations were recorded at each of the on-site monitoring wells and in the trench collection sump on March 17, 2006. Table 2 summarizes groundwater elevations measured on a monthly basis for the previous year. For reference, groundwater elevations recorded in 1995 and 1996 (before installation of the collection system in April 1997) have been included in Table 2

In conclusion, the March 2006 remediation system performance monitoring event indicates that the collection and treatment systems continue to effectively capture and treat the groundwater contaminant plume, preventing off-site migration of contaminated groundwater.

Sincerely,  
MOOG, Inc.

A handwritten signature in black ink that reads "Robin Young". The signature is written in a cursive style with a long horizontal stroke extending to the right.

Robin Young  
Environmental and Process Specialist

Cc: D. Bauchat  
J. Fisher

TABLE 1

MOOG, INC.  
 PLANT 11 REMEDIATION SYSTEM PERFORMANCE MONITORING  
 SUMMARY OF TREATMENT SYSTEM MONITORING  
 March 2006

| Parameter                              | MW-5 Concentration | Influent Concentration | Effluent Concentration | Outfall Limit |
|--|--------------------|------------------------|------------------------|---------------|
| 1,1-Dichloroethane                     | -                  | 61 ug/l                | 8 ug/L                 | 10 ug/L       |
| 1,1-Dichloroethene                     | -                  | <1 ug/l                | <1 ug/L                | 10 ug/L       |
| Cis 1,2-Dichloroethene                 | -                  | 20 ug/l                | 3 ug/L                 | 10 ug/L       |
| Tetrachloroethene                      | -                  | <1 ug/l                | <1 ug/L                | 10 ug.L       |
| 1,1,1-Trichloroethane                  | -                  | 3 ug/l                 | <1 ug/L                | 10 ug/L       |
| Trichloroethene                        | -                  | 3 ug/l                 | <1 ug/L                | 10 ug/L       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane* | -                  | 19 ug/l                | <2.0 ug/L              | 10 ug/L       |
| All Other VOCs                         | -                  | <10 ug/l               | <10 ug/l               | --            |
| Temperature                            | -                  | 56. F                  | 59.°F                  | 90°F          |
| pH                                     | -                  | 7.71                   | 7.68                   | 6.0 – 9.0     |
| Flow (gallons per day)                 | --                 | --                     | 10812.**               | --            |

Notes:

\* Freon 113

\*\* Represents average daily flow for this monthly monitoring period based on the total volume of groundwater treated between 02/22/06 and 03/17/06.

ND Not Detected above practical quantification limit (PQL).

TABLE 2

**MOOG, INC.  
PLANT 11 REMEDIATION SYSTEM PERFORMANCE MONITORING**

**SUMMARY OF GROUNDWATER ELEVATIONS**

| Well Number         | PVC Riser Elevation | Bottom <sup>(1)</sup> Depth | Groundwater Elevation (ft) and Date of Measurement |          |          |          |          |          |          |          |
|---------------------|---------------------|-----------------------------|--|----------|----------|----------|----------|----------|----------|----------|
|                     |                     |                             | 3/28/95*   | 7/11/96* | 9/23/96* | 03/24/05 | 04/27/05 | 05/26/05 | 06/22/05 | 07/29/05 |
| MW-1B               | 99.47               | 16.81/16.42                 | 95.34  | 94.56    | 94.53    | 94.25    | 93.991   | 94.47    | 93.62    | 93.60    |
| MW-2A               | 98.70               | 22.57/25.22                 | 91.79  | 91.85    | 91.22    | 90.96    | 90.93    | 91.62    | 90.22    | 90.15    |
| MW-2B               | 98.90               | 10.53/9.94                  | 93.95  | 93.96    | 93.20    | 90.78    | 91.40    | 94.30    | 89.38    | 89.09    |
| MW-3                | 99.66               | 11.74/11.34                 | 94.81  | 93.78    | 93.01    | 89.00    | 88.97    | 93.28    | 89.94    | 89.90    |
| MW-4 <sup>(2)</sup> | 99.47               | 11.61/12.55                 | 93.83  | 96.07    | 95.35    | 90.55    | 88.85    | 95.22    | 88.85    | 88.77    |
| MW-5                | 96.95               | 10.53/10.12                 | 92.03  | 91.29    | 90.41    | 95.05    | 91.90    | 91.80    | 90.55    | 90.00    |
| MW-6                | 99.43               | 14.26/13.96                 | 93.83  | 94.20    | 93.32    | 88.53    | 88.78    | 93.45    | 88.91    | 88.90    |
| MW-7                | 97.43               | 12.04/10.65                 | 93.82  | 93.95    | 93.13    | 88.88    | 88.99    | 93.18    | 86.81    | 88.89    |
| SUMP                | 100.08              | --                          | --   | --       | --       | 89.15    | 89.75    | 89.63    | 89.91    | 89.07    |

## Notes:

(1) Bottom depths were measured in feet below reference point on 9/30/98/-/10/28/02.

(2) Well riser was modified to a flush mount configuration on 7/11/96.

\* Before installation of the collection system (April 1997).

-- Water level was not measured.

TABLE 2 (Continued)

MOOG, INC.  
PLANT 11 REMEDIATION SYSTEM PERFORMANCE MONITORING

SUMMARY OF GROUNDWATER ELEVATIONS

| Well Number         | PVC Riser Elevation | Bottom <sup>(1)</sup> Depth | Groundwater Elevation (ft) and Date of Measurement |          |          |          |          |          |          |          |  |  |
|---------------------|---------------------|-----------------------------|--|----------|----------|----------|----------|----------|----------|----------|--|--|
|                     |                     |                             | 08/31/05   | 09/21/05 | 10/25/05 | 11/22/05 | 12/20/05 | 01/20/06 | 02/23/06 | 03/17/06 |  |  |
| MW-1B               | 99.47               | 16.81/16.42                 | 93.69  | 94.05    | 93.65    | 94.23    | 96.49    | 93.08    | 93.89    | 93.63    |  |  |
| MW-2A               | 98.70               | 22.57/25.22                 | 91.11  | 91.65    | 89.72    | 90.55    | 90.62    | 90.58    | 90.86    | 91.26    |  |  |
| MW-2B               | 98.90               | 10.53/9.94                  | 89.21  | 89.89    | 90.48    | 89.99    | 91.05    | 90.68    | 90.22    | 89.90    |  |  |
| MW-3                | 99.66               | 11.74/11.34                 | 89.89  | 90.07    | 90.98    | 90.90    | 88.92    | 89.00    | 90.98    | 88.84    |  |  |
| MW-4 <sup>(2)</sup> | 99.47               | 11.61/12.55                 | 88.88  | 89.78    | 90.82    | 90.92    | 91.85    | 88.87    | 90.98    | 88.73    |  |  |
| MW-5                | 96.95               | 10.53/10.12                 | 90.05  | 90.47    | 91.25    | 91.35    | 91.90    | 90.11    | 91.26    | 91.25    |  |  |
| MW-6                | 99.43               | 14.26/13.96                 | 88.99  | 88.65    | 90.81    | 90.44    | 90.80    | 88.87    | 89.35    | 88.73    |  |  |
| MW-7                | 97.43               | 12.04/10.65                 | 88.78  | 88.99    | 89.98    | 89.54    | 91.88    | 88.88    | 89.15    | 88.75    |  |  |
| SUMP                | 100.08              | --                          | 90.08  | 89.78    | 89.91    | 90.06    | 89.66    | 90.55    | 90.04    | 89.89    |  |  |

Notes:

(1) Bottom depths were measured in feet below reference point on 9/30/98--10/28/02.

(2) Well riser was modified to a flush mount configuration on 7/11/96.

\* Before installation of the collection system (April 1997).

-- Water level was not measured.



**WASTE STREAM TECHNOLOGY, INC.**

302 Grote Street  
Buffalo, NY 14207  
(716) 876-5290

**Analytical Data Report**  
Report Date: 03/31/06  
Work Order Number: 6C17003

**Prepared For**  
John G. Fisher, Jr.  
Certified Analytical Laboratory Serv.  
4455 Genesee Street, Box 400  
Buffalo, NY 14225  
Fax: (716) 631-6722  
Site: Stripper

Enclosed are the results of analyses for samples received by the laboratory on 03/17/06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



\_\_\_\_\_  
Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS  
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757



Waste Stream Technology Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Certified Analytical Laboratory Serv.  
4455 Genesee Street, Box 400  
Buffalo NY, 14225

Project: CAL MOOG Stripper  
Project Number: Stripper  
Project Manager: John G. Fisher, Jr.

Reported:  
03/31/06 08:55

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| CAL-M-Inf | 6C17003-01    | Water  | 03/17/06 07:30 | 03/17/06 09:19 |
| CAL-M-Eff | 6C17003-02    | Water  | 03/17/06 07:30 | 03/17/06 09:19 |

Certified Analytical Laboratory Serv.  
 4455 Genesee Street, Box 400  
 Buffalo NY, 14225

Project: CAL MOOG Stripper  
 Project Number: Stripper  
 Project Manager: John G. Fisher, Jr.

Reported:  
 03/31/06 08:55

**Volatile Organic Compounds by EPA Method 8260B**  
**Waste Stream Technology Inc.**

| Analyte  | Result    | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|--|-----------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| <b>CAL-M-Inf (6C17003-01) Water Sampled: 03/17/06 07:30 Received: 03/17/06 09:19</b> |           |                 |       |          |         |          |          |        |       |
| chloromethane  | ND        | 2               | ug/l  | 1        | AC62103 | 03/22/06 | 03/22/06 | 8260   | U     |
| <b>vinyl chloride</b>  | <b>3</b>  | 1               | "     | "        | "       | "        | "        | "      |       |
| bromomethane   | ND        | 2               | "     | "        | "       | "        | "        | "      | U     |
| chloroethane   | ND        | 2               | "     | "        | "       | "        | "        | "      | U     |
| 1,1-dichloroethene   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| acetone  | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| carbon disulfide   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| methylene chloride   | ND        | 2               | "     | "        | "       | "        | "        | "      | U     |
| trans-1,2-dichloroethene   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| <b>1,1-dichloroethane</b>  | <b>61</b> | 1               | "     | "        | "       | "        | "        | "      |       |
| vinyl acetate  | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| 2-butanone   | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| <b>cis-1,2-dichloroethene</b>  | <b>20</b> | 1               | "     | "        | "       | "        | "        | "      |       |
| chloroform   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| <b>1,1,1-trichloroethane</b>   | <b>3</b>  | 1               | "     | "        | "       | "        | "        | "      |       |
| carbon tetrachloride   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| benzene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| 1,2-dichloroethane   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| <b>trichloroethene</b>   | <b>3</b>  | 1               | "     | "        | "       | "        | "        | "      |       |
| 1,2-dichloropropane  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| bromodichloromethane   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| 2-chloroethylvinyl ether   | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| 4-Methyl-2-pentanone (MIBK)  | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| cis-1,3-dichloropropene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| toluene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| trans-1,3-dichloropropene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| 1,1,2-trichloroethane  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| 2-hexanone   | ND        | 10              | "     | "        | "       | "        | "        | "      | U     |
| tetrachloroethene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| dibromochloromethane   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| chlorobenzene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| ethylbenzene   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| <b>1,1,2-trichloro-1,2,2-trifluoroethane</b>   | <b>19</b> | 2               | "     | "        | "       | "        | "        | "      |       |
| m,p-xylene   | ND        | 2               | "     | "        | "       | "        | "        | "      | U     |
| o-xylene   | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| styrene  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| bromoform  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| 1,1,2,2-tetrachloroethane  | ND        | 1               | "     | "        | "       | "        | "        | "      | U     |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |           | 102 %           |       | 74-117   | "       | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>   |           | 100 %           |       | 82-123   | "       | "        | "        | "      |       |
| <i>Surrogate: Bromofluorobenzene</i>   |           | 98.3 %          |       | 85-123   | "       | "        | "        | "      |       |

Waste Stream Technology Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Certified Analytical Laboratory Serv.  
 4455 Genesee Street, Box 400  
 Buffalo NY, 14225

Project: CAL MOOG Stripper  
 Project Number: Stripper  
 Project Manager: John G. Fisher, Jr.

Reported:  
 03/31/06 08:55

**Volatile Organic Compounds by EPA Method 8260B**  
**Waste Stream Technology Inc.**

| Analyte  | Result   | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|--|----------|-----------------|--------|----------|---------|----------|----------|--------|-------|
| <b>CAL-M-Eff (6C17003-02) Water Sampled: 03/17/06 07:30 Received: 03/17/06 09:19</b> |          |                 |        |          |         |          |          |        |       |
| chloromethane  | ND       | 2               | ug/l   | 1        | AC62103 | 03/22/06 | 03/22/06 | 8260   | U     |
| vinyl chloride   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| bromomethane   | ND       | 2               | "      | "        | "       | "        | "        | "      | U     |
| chloroethane   | ND       | 2               | "      | "        | "       | "        | "        | "      | U     |
| 1,1-dichloroethene   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| acetone  | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| carbon disulfide   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| methylene chloride   | ND       | 2               | "      | "        | "       | "        | "        | "      | U     |
| trans-1,2-dichloroethene   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| <b>1,1-dichloroethane</b>  | <b>8</b> | 1               | "      | "        | "       | "        | "        | "      |       |
| vinyl acetate  | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| 2-butanone   | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| <b>cis-1,2-dichloroethene</b>  | <b>3</b> | 1               | "      | "        | "       | "        | "        | "      |       |
| chloroform   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,1,1-trichloroethane  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| carbon tetrachloride   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| benzene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,2-dichloroethane   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| trichloroethene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,2-dichloropropane  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| bromodichloromethane   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 2-chloroethylvinyl ether   | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| 4-Methyl-2-pentanone (MIBK)  | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| cis-1,3-dichloropropene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| toluene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| trans-1,3-dichloropropene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,1,2-trichloroethane  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 2-hexanone   | ND       | 10              | "      | "        | "       | "        | "        | "      | U     |
| tetrachloroethene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| dibromochloromethane   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| chlorobenzene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| ethylbenzene   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,1,2-trichloro-1,2,2-trifluoroethane  | ND       | 2               | "      | "        | "       | "        | "        | "      | U     |
| m,p-xylene   | ND       | 2               | "      | "        | "       | "        | "        | "      | U     |
| o-xylene   | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| styrene  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| bromoform  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| 1,1,2,2-tetrachloroethane  | ND       | 1               | "      | "        | "       | "        | "        | "      | U     |
| Surrogate: 1,2-Dichloroethane-d4   |          | 101 %           | 74-117 | "        | "       | "        | "        | "      |       |
| Surrogate: Toluene-d8  |          | 100 %           | 82-123 | "        | "       | "        | "        | "      |       |
| Surrogate: Bromofluorobenzene  |          | 99.0 %          | 85-123 | "        | "       | "        | "        | "      |       |

Certified Analytical Laboratory Serv.  
4455 Genesee Street, Box 400  
Buffalo NY, 14225

Project: CAL MOOG Stripper  
Project Number: Stripper  
Project Manager: John G. Fisher, Jr.

Reported:  
03/31/06 08:55

### Notes and Definitions

U Analyte included in the analysis, but not detected  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

6C17003

Certified Analytical Laboratory Services

JOHN G. FISHER, JR., DIRECTOR NYS ELAP ID# 10383

4455 Genesee Street Box 400 Buffalo NY 14225 Telephone Number (716) 631-6799

FAX 716-631-6722

Chain of Custody Report for Sampling and Analysis

Sample Numbers: CAL - M- INF 2X40 8260 + FROM 01  
EFF 2X40 02

Description: STAPPR

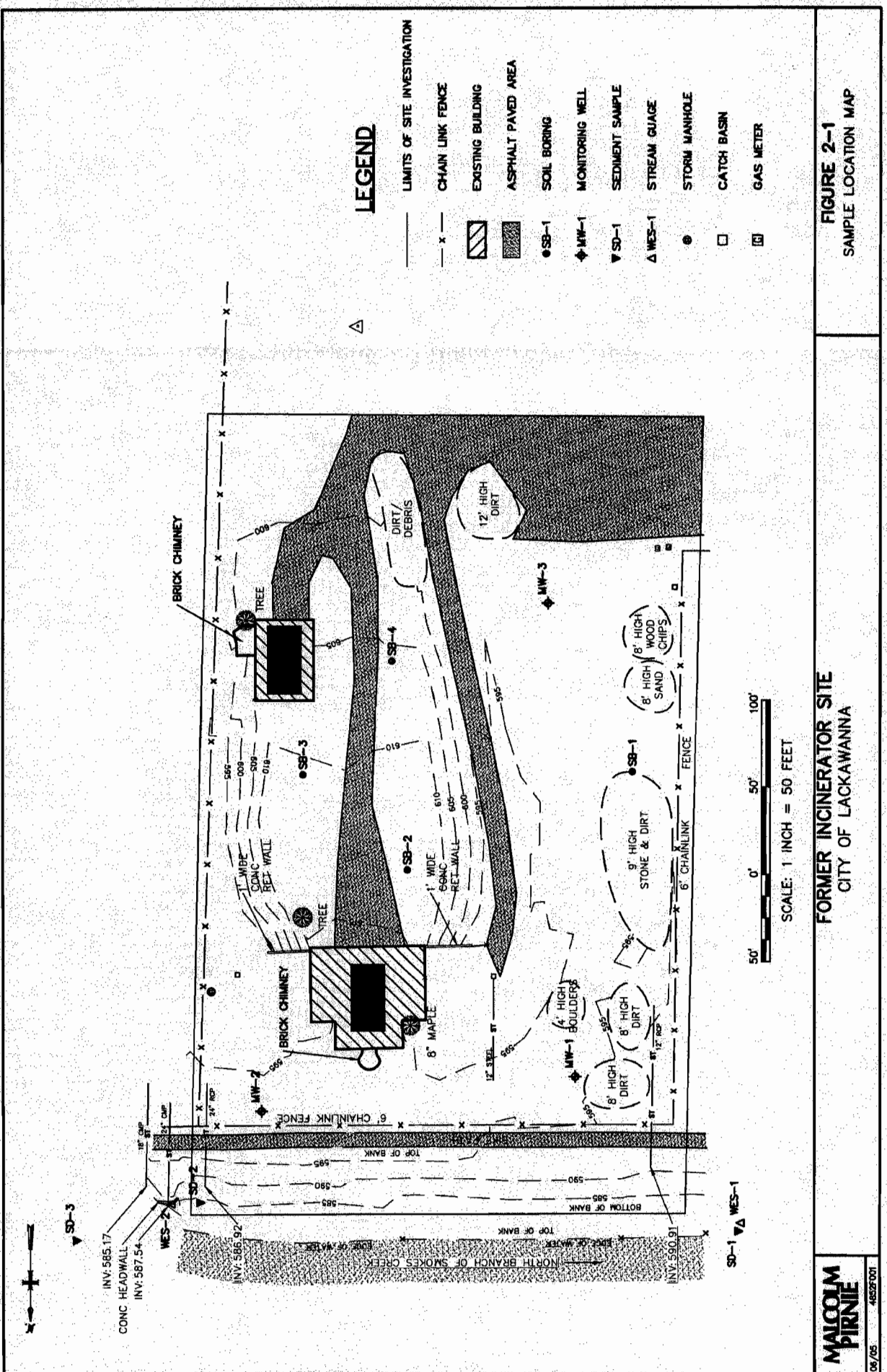
Location of Sampling: m

Date and Time of Sampling: 3/17/06 7:30

Individuals having custody of sample: JGR

| <u>Name</u>        | <u>Title</u> | <u>Company</u> | <u>Date Received</u> | <u>Time Received</u> |
|--------------------|--------------|----------------|----------------------|----------------------|
| J. Fisher          | Dir          | CAL            | 3/17/06              | 7:30                 |
| Mark A. O'Sullivan |              |                | 3/17/06              | 9:19 AM              |
|                    |              |                |                      |                      |
|                    |              |                |                      |                      |

| pH | <u>STANDARDS</u> | <u>+/-</u> | <u>READINGS</u> | <u>SAMPLE</u> | <u>STANDARDS</u> | <u>TEMP F</u> |
|----|------------------|------------|-----------------|---------------|------------------|---------------|
|    | 4.00             |            |                 |               |                  |               |
|    | 7.00             |            |                 |               |                  |               |
|    | 10.00            |            |                 |               |                  |               |



**FIGURE 2-1**  
SAMPLE LOCATION MAP

**MEMORANDUM**

**TO:** Ed Belmore, Chief, Remedial Bureau D  
Dick Dana, Division of Environmental Enforcement  
Gary Litwin, NYSDOH, Bureau of Environmental Exposure

**FROM:** Kelly A. Lewandowski, Chief, Site Control Section *Kelly A. Lewandowski*

**SUBJECT:** Review of Classification Package for Site #915206  
Lackawanna Incinerator Site

**DATE:** June 28, 2006

The attached new "Site Classification Form" (formerly SII) with supporting documentation is attached for your review and approval. The Site Control Section is initiating this review via email, no hard copy will follow.

If acceptable, sign at the bottom of the second page of the Site Classification Form in the appropriate approval space and return to us in PDF format by email or you may print and sign the form then return it to us as a hard copy. Please respond by July 28, 2006.

If unacceptable, please return with an explanation of your position in a separate memo or letter.

An important part of your review should include modifying, if necessary, the statement in Basis for Classification Change of the Site Classification Form so that it can be used in all appropriate notification documentation (i.e., ENB, owner and adjacent property owner notification letter, and newspaper legal notice.

Please keep the supporting documentation for your records.

Attachments





# STATE OF NEW YORK DEPARTMENT OF HEALTH

Flanigan Square, 547 River Street, Troy, New York 12180-2216

Antonia C. Novello, M.D., M.P.H., Dr.P.H.  
*Commissioner*

Dennis P. Whalen  
*Executive Deputy Commissioner*

August 17, 2006

Ms. Kelly Lewandowski, Chief  
Site Control Section  
Division of Environmental Remediation  
NYS Dept. of Environmental Conservation  
625 Broadway - 12<sup>th</sup> Floor  
Albany, New York 12233-7011

Re: Classification Package  
Lackawanna Incinerator  
Site #915206  
Lackawanna (C), Erie County

Dear Ms. Lewandowski:

Staff reviewed the June 2006 Classification Package for the Lackawanna Incinerator site. Previous sampling of incinerator ash found lead values ranging up to 23,000 parts per million (ppm). Sediment samples taken from the adjacent Smoke's Creek indicate that lead contamination is present at values up to 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion and the potential for human contact. Currently the site is fenced; however, the City of Lackawanna has proposed expanding the adjacent park to incorporate this property. Since there is the potential for exposure to contaminants and the site use may become recreational, I concur with the proposed Class 2 designation. The signed decision form is enclosed.

If you have any questions, please call Mark VanValkenburg at (518) 402-7860.

Sincerely,

Steven M. Bates, Assistant Director  
Bureau of Environmental Exposure Investigation

Enclosure

**RECEIVED**

AUG 24 2006

**BUREAU OF  
TECHNICAL SUPPORT**

Ms. Kelly Lewandowski  
Site #915206  
August 17, 2006

cc: G. A. Carlson, Ph.D/A.Grey, Ph.D  
Mr. G. Litwin/M. VanValkenburg  
Mr. C. O'Connor, WRO  
Mr. E. Belmore, DEC  
Mr. M. Doster, DEC Reg. 9  
Mr. J. Kociela, ECHD

P:\Bureau\Sites\Region\_9\ERIE\915206\DESNOYERLTR.doc



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
Site Classification Form



6/27/2006

Site Code 915206

Site Name Lackawanna Incinerator site

Remedy Description and Cost

Remedy Description for Operable Unit 01

Total Cost

OU

Site Management Plan Approval:

Status:

Basis for Classification Change

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via crosion, and human contact. Currently the site is fenced, however, the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

Organization Approval Dates:

Project Manager: 06/02/2006

DOH:

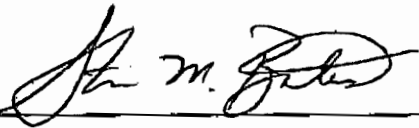
DEE:

Proj. Man. Supervisor: 06/02/2006

SCS Chief:

Remedial Bureau Dir.:

BTS BUR Dir.:

|   |                              |         |
|---|------------------------------|---------|
|  | Assist. Dir. - BEEF, NYS DOH | 8/17/06 |
| Signature (Concurrence with Proposed Classification)                                | Organization Title           | Date    |



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 Site Classification Form



6/27/2006

Site Code 915206

Site Name Lackawanna Incinerator site

**Remedy Description and Cost**

Remedy Description for Operable Unit 01

Total Cost

OU Site Management Plan Approval: Status:

**Basis for Classification Change**

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion, and human contact. Currently the site is fenced, however, the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

**Organization Approval Dates:**

Project Manager: 06/02/2006

DOH:

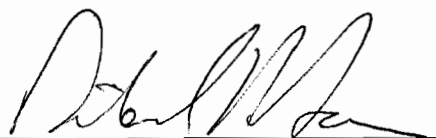
DEE:

Proj. Man. Supervisor: 06/02/2006

SCS Chief:

Remedial Bureau Dir.:

BTS BUR Dir.:

|   |                       |        |
|---|-----------------------|--------|
|  | COORDINATOR, TSS, DEE | 2/2/06 |
| Signature (Concurrence with Proposed Classification)                                | Organization Title    | Date   |



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
**Site Classification Form**



6/27/2006

Site Code 915206

Site Name Lackawanna Incinerator site

**Remedy Description and Cost**

Remedy Description for Operable Unit 01

Total Cost

|    |                                |         |
|----|--------------------------------|---------|
| OU | Site Management Plan Approval: | Status: |
|----|--------------------------------|---------|

**Basis for Classification Change**

The site is located next to the City's Department of Public Works and a public park (Veteran's Memorial Athletic fields and Stadium). Surface water flows into Smoke's Creek which is immediately adjacent to the site. Sampling conducted in 2005 under USEPA's Brownfield Program found that ash is present in surface and sub-surface fill on the site. Samples of this ash have found lead values ranging up to 23,000 parts per million. Samples of sediment indicate that lead contamination is present at values of 3,580 ppm. The presence of elevated lead on the site poses a significant threat due to migration via erosion, and human contact. Currently the site is fenced, however, the City has prepared land use plans creating an expansion of the adjacent park. Currently the site will not support recreational use without remediation of the ash material.

**Organization Approval Dates:**

Project Manager: 06/02/2006

DOH:


DEE:

Proj. Man. Supervisor: 06/02/2006

SCS Chief:

Remedial Bureau Dir.:

BTS BUR Dir.:

|   |                        |         |
|---|------------------------|---------|
|  | Director - Remediation | 7/28/06 |
| Signature (Concurrence with Proposed Classification)                                | Organization Title     | Date    |