Phase I Environmental Site Assessment

South Aud Block
Southeast Portion of 130 Main Street
A Portion of Tax Section No. 111-.17, Block No. 14, Lot No. 1
Buffalo, New York

09-75-104

Prepared for:

NEW YORK STATE OF OPPORTUNITY. Erie Canal Harbor Development Corporation

Erie Canal Harbor Development Corporation
95 Perry Street
Buffalo, New York 14203

Prepared by:

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York 14209

July 24, 2017

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TABLE OF CONTENTS

FIGURES

REFERENCES

ATTACHMENTS

Executive Summary

ES.1 Introduction

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared by LiRo Engineers, Inc. (LiRo) for the southeast portion (the "Site") of a greater parcel addressed at 130 Main Street located within the City of Buffalo, Erie County, New York (a portion of Tax Section No. 11.17, Block No. 14, and Lot No. 1). This Phase I ESA has been prepared in accordance with American Society for Testing Materials (ASTM) Practice E1527-13 (with the exception of performing a title and lien search, which in accordance with ASTM E1527-13 are the responsibility of the Phase I ESA *User*) and United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) Final Rule. According to the USEPA, the AAIs Final Rule is the process of evaluating a property's environmental conditions and assessing potential liability for any contamination. All appropriate inquiries must be conducted to obtain certain protections from liability under the federal Superfund Law (also known as Comprehensive Environmental Response Compensation and Liability Act [CERCLA]). The purpose of this assessment is to identify recognized environmental conditions (RECs), historic RECs (HRECs), and/or Controlled RECs (CRECs) associated with the Site, as defined in the ASTM E1527-13 Standard.

ES.2 Project Description

The Site includes the southeast portion of a larger tax parcel. The larger tax parcel is the location of the former Memorial Auditorium (the "Aud") which was demolished in 2009. The Site has frontage along Main Street and Marine Drive and the approximate boundary is shown on Figure 2. The Site is currently developed as follows.

Section, Block, & Lot	Address	Parcel Size	Development
A portion of 111-17-14-1	A portion of 130 Main St.	Approx. 30,000 square feet	Lawn/sidewalks

This Phase I ESA was performed to evaluate RECs, HRECs, CRECs, and potential environmental concerns along with assessing potential liability for any contamination associated with the Site. The Phase I ESA included the following tasks:

- site reconnaissance;
- investigation of historical site conditions;
- interviews with individuals having knowledge of the Site;
- review of regulatory records;
- review of an environmental database;
- observations of neighboring properties to assess potential adjacent environmental concerns; and,
- preparation of this report in accordance with ASTM and AAI guidelines.

ES.3 Environmental Impacts

Based on information gathered during this Phase I ESA, the following known or suspect RECs were identified.

- As part of this Phase I ESA, LiRo reviewed analytical data for 12 soil borings that were advanced at 130 Main Street in July 2014. Based on the map provided, borings B-4 through B-11 were advanced on the Site while the remaining boring were advanced on the west adjacent property.

The eight on-site borings were advanced to various depths ranging from 4 to 16 feet below grade (ftbg). While B-11 was included on the chain-of-custody to the lab, no results were provided for that sample. Based on a review of the analytical results, multiple polycyclic aromatic hydrocarbons (PAHs) were reported at concentrations exceeding the Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential Soil Cleanup Objectives (SCOs), Commercial SCOs, and/or NYSDEC CP-51 Soil Cleanup Levels (SCLs) Table 1 – Supplemental SCOs (SSCOs) in B-9 and B-10. The PAH exceedances included benzo(a)anthracene, benzo(a)pyrene, benzo(b) fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. Two metals were reported at concentrations exceeding Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential SCOs, Commercial SCOs, and/or NYSDEC CP-51 SCLs Table 1 –SSCOs in all seven samples analyzed. Metal exceedances included iron and mercury. The presence of these PAHs and metals is indicative of urban historic fill and is considered a REC.

- Based on a review of the Sanborn Maps and City Directories, surrounding land usage posing a potential environmental concern to the Site included wire works, junk yard, medicine manufacturing, boot and shoe manufacturing, copper and sheet iron works, printing facility, refrigerator/birdhouse/bicycle manufacturing, soap works, flavoring extracts manufacturing, small oil manufacturing facility, a railroad station, machine company, a sheet metal works facility, plating/metals works/manufacturing, trailer sales and service, hardware manufacturer, gas corporations, chemical manufacturer, newspaper/printing operations, leather companies, Buff Waste Material Co., bicycle and lawn mower parts manufacturer, refrigeration company, boiler makers, asbestos companies, the Lehigh Railroad, tire companies, motor car and truck companies/dealerships, auto repair facilities, gas stations, D&T Cleaners, Industrial Paint Co., Frontier Engine Works, Inc., Bowers Battery and Spark Plug Co., and Mey Chain Belt Co. These surrounding operations are considered RECs.

Historical RECs (HRECs) are used to identify past releases that have been addressed to the satisfaction of the applicable regulatory authority and which do not subject the property to any required controls. The following HRECs were also identified.

- The regulatory agency records identified 130 Main Street, the larger parcel, as including three NY Spills for the Site. A summary of these spills is as follows: 1) Canalside, 130 Main St. - This spill, no. 1407916, occurred on October 28, 2014 and involved the release of approximately 40-gallons of ethylene glycol due to piping failure at the ice rink. This spill was closed by the NYSDEC on December 5, 2014; 2) Within a Pipe Case, 130 Main St. - This spill, no. 1407917, was identified on October 31, 2014 and was determined to be a duplicate of spill no. 1407916 above. As a result, this spill was closed by the NYSDEC on October 31, 2014; and, 3) Pike Co., 130 Main St. – This spill, no. 1410926, occurred on February 16, 2015 and involved the release of approximately 1-gallon of glycol due to the cold temperatures. This spill was closed by the NYSDEC on February 17, 2015. Based on LiRo's review of the spill details for the above listed spills, it appears that these spills are associated with the larger parcel and did not involve the Site. These former spills are considered HRECs.
- In addition to the spills listed above, a September 2010 Phase I ESA completed by LiRo on the greater parcel identified a glycol spill which occurred during the demolition activities of the former Aud. The NYSDEC was contacted and Spill No. 0902966 was assigned. The spill was cleaned, all waste was properly disposed of off-site, and the NYSDEC closed the spill file. As this spill has been addressed to the satisfaction of the NYSDEC, this spill is considered an HREC.

- LiRo also has records indicating that Spill No. 1201860 was assigned to the greater parcel on May 1, 2012. This spill listing resulted from the discovery of discolored soils, odors, and elevated photo-ionization detected (PID) readings during excavation activities in the southwest portion of the former Aud. The impacted soils were excavated, stockpiled, and disposed of off-site as petroleum-contaminated soil. Following cleanup of this spill, the NYSDEC classified the spill as closed on February 26, 2014. Since this spill has been addressed to the satisfaction of the NYSDEC, it is considered a HREC.

No CRECs, de minimis conditions, or environmental issues were identified.

Based on the findings of the Phase I ESA, LiRo recommends the following relative to the known or suspect RECs identified above.

- Prior to redevelopment, an ASTM-compliant Phase II Environmental Site Investigation (ESI) should be performed.
- If future redevelopment involves earthwork, a soil management plan should be established to properly identify and manage any potentially impacted historical fill during construction and to prevent exposure of future Site users to any identified impacted soil, groundwater, or soil vapor.

1.0 Introduction

LiRo Engineers, Inc. (LiRo) has prepared this Phase I Environmental Site Assessment (Phase I ESA) for the Erie Canal Harbor Development Corporation (ECHDC).

1.1 Purpose

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared by LiRo Engineers, Inc. (LiRo) for the southeast portion (the "Site") of a greater parcel addressed at 130 Main Street located within the City of Buffalo, Erie County, New York (a portion of Tax Section No. 11.17, Block No. 14, and Lot No. 1). Tax Section and Block No. 111.17-14 is bounded by Exchange Street/Upper Terrace to the north, Marine Drive to the south, Main Street to the east, and Commercial Street/Pearl Street to the west. Lot No. 1 occupies the entire block. The Site included within this Phase I ESA includes the southeast portion of the larger parcel/block. The location and approximate boundary of the Site are presented in Figures 1 and 2, respectively.

This Phase I ESA has been prepared in accordance with American Society for Testing Materials (ASTM) Practice E1527-13 (with the exception of performing a title and lien search, which in accordance with ASTM E1527-13 are the responsibility of the Phase I ESA *User*) and United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) Final Rule. According to the USEPA, the AAIs Final Rule is the process of evaluating a property's environmental conditions and assessing potential liability for any contamination. All appropriate inquiries must be conducted to obtain certain protections from liability under the federal Superfund Law (also known as Comprehensive Environmental Response Compensation and Liability Act [CERCLA]). The purpose of this assessment is to identify recognized environmental conditions (RECs), historic RECs (HRECs), and/or Controlled RECs (CRECs) associated with the Site, as defined in the ASTM E1527-13 Standard.

This report is intended for the sole use of the client unless written approval is granted by the client and LiRo.

1.2 Scope of Work

The scope of the Phase I ESA included, but was not limited to:

1. site visit and reconnaissance of the assessed properties and their adjoining properties;
2. review of *User* provided information;
3. review of historical Sanborn fire insurance maps;
4. review of governmental regulatory agency databases for potential environmental impact on the property or from adjacent and adjoining property listings; and,
5. interviews with individuals having knowledge of the Site.

1.3 Significant Assumptions

LiRo has prepared this Phase I ESA within the scope of ASTM Practice E1527-13 and USEPA AAI Final Rule on the assessed property.

1.4 Limitations and Exceptions

LiRo has obtained information through various sources including, but not limited to, an environmental database provided by Environmental Data Resources, Inc. (EDR) and various agencies. It is possible that additional information exists for the property that was not provided to LiRo at the time that this Phase I ESA was performed. The findings presented in this report are based upon information reasonably ascertainable or visible at the time of the assessment. At the time this report was prepared, LiRo has received limited responses for records from the following Agencies:

- Erie County Department of Health (ECDOH);
- New York State Department of Environmental Conservation (NYSDEC); and,
- USEPA.

Correspondence with the above mentioned agencies is provided in Attachment 8. In addition, no title or lien search was provided to LiRo.

1.5 Special Terms and Conditions

This Phase I ESA does not warrant against the following.

- Conditions not visible at the time of the site reconnaissance.
- Historical information that was not included in the records obtained.
- Information from off-site contaminant sources not available in public records.
- Conditions only accessible through site investigation techniques (i.e., drilling or excavating).

1.6 User Reliance

LiRo can assure the client that this Phase I ESA has been prepared in accordance with ASTM Practice E1527-13 with any exceptions as noted in Section 1.4 along with the USEPA AAI Final Rule. This report is presumed to be valid for a reasonable period (i.e., 180-days from the report date) or until the client obtains information, which alters a significant finding or conclusion. The findings, opinions, and recommendations presented in this report are exclusive to the client and the assessed property. Written permission must be obtained from LiRo and its client for use of this report, its findings, opinions, and recommendations by other parties, persons, or firms.

2.0 Site Description

2.1 Location and Legal Description

The Site is located within the City of Buffalo, Erie County, New York (a portion of Tax Section No. 11.17, Block No. 14, and Lot No. 1) (Figure 1). The Site has frontage along Main Street and Marine Drive. Tax Section and Block No. 111.17-14 is bounded by Exchange Street/Upper Terrace to the north, Marine Drive to the south, Main Street to the east, and Commercial Street/Pearl Street to the west. Lot No. 1 occupies the entire block. The Site included within this Phase I ESA includes the southeast portion of the larger parcel/block. The location and approximate boundary of the Site are presented in Figures 1 and 2, respectively.

2.2 Site and Vicinity General Characteristics

The Site is located in a commercial and recreational area in the City of Buffalo, New York. The Site is currently lawn area and a walkway associated with the Canalside development project. One metal portable-container type-building was also noted on the easterly portion of the Site.

The northwest portion of the Site was formerly occupied by the Aud which was demolished in 2009. Some Aud foundation elements (i.e., pile caps) may remain beneath the Site. In addition, a large storm sewer known as the Hamburg Drain is located near the northern boundary of the Site. The former Aud footprint and approximate Hamburg Drain locations are shown on Figure 3.

The surrounding area is an urban setting with commercial operations and public use areas. The Canalside Ice Rink is located north adjacent to the Site, and the ice ring mechanical room is located below-grade, west adjacent to the Site. A light rail transit line is located east adjacent to the Site.

2.3 Current Use of the Property - Descriptions of Structures, Roads, Other Improvements on the Site

Based on Erie County geographic information system (GIS), the Site is a portion of a larger parcel which is addressed at 130 Main Street, Buffalo, New York. The Site is currently lawn area and sidewalks associated with the surrounding Canalside development. Photographs of the Site are provided in Attachment 7.

2.4 Current Uses of the Adjoining Properties

The Site block primarily consists of the Canalside Ice Rink and pavilion. Adjacent properties include the Canalside Ice Rink to the north, the Canalside Pierce Lawn and Dart Lawn to the south, the Courtyard by Marriott and the associated outdoor space to the east, and the Canalside Ice Rink, the Skyway, and a parking lot to the west.

2.5 Physical Setting

2.5.1 Topography

LiRo reviewed the United States Geologic Survey (USGS), Buffalo Northwest, New York 7.5' Quadrangle (2013). The elevation at the Site is approximately 585 feet above mean sea level (amsl). The area immediately surrounding the Site has a general slope toward the west.

2.5.2 Area Geology

Based on the Geologic Map of New York, dated 1970, the Site is located within the Onondaga and Bois Blanc Limestones, specifically the Onondaga Limestone including Seneca, Morehouse (cherty), and Clarence Limestone Members, Edgecliff cherty Limestone Member, local coral bioherms, and the Bois Blanc Limestone including sandy, thin, discontinuous soils.

Based on the Empire GeoServices 2009 Geotechnical Report for the greater parcel, the top of rock is approximately 540 ft above mean sea level (AMSL) or approximately 45 feet below grade (ftbg). The greater parcel was found to contain fill to 15 ftbg followed by clay/silt from 15 to 25 ftbg, and sand to bedrock.

2.5.3 Area Hydrogeology

Based on the geotechnical report, groundwater is anticipated to be present at a depth of 10 to 15 ftbg. Groundwater flow is generally to the wests-southwest towards the Buffalo River and Lake Erie.

3.0 *User* Provided Information

3.1 Title Record

LiRo did not perform a title or lien search as part of this Phase I ESA. In accordance with ASTM E1527-13 Standards, the title and lien search are the responsibility of the *User* and at the time of this report, no title or lien records were provided to LiRo.

Based on the Erie County GIS, the larger parcel measures approximately 4.64 acres. The Site includes approximately 30,000 square feet within this larger parcel. The larger parcel is designated as an outdoor rink. The USGS Topographic Map is provided as Figure 1 and a summary of the on-line data for the Site's larger parcel is provided below:

Lot No.	Lot Area (acres)	Address	Current # of Buildings & Year Built	Owner
1	4.64 (greater parcel)	130 Main Street	0 – Not applicable	Erie Canal Harbor Development Corporation (ECHDC)

3.2 Environmental Liens or Activity and Use Limitations (AUL)

No restrictive or environmental declarations have been identified for the Site through the regulatory records. ECHDC, the *User*, did not provide LiRo with any information pursuant to environmental liens or Activity and Use Limitations (AUL) encumbering the property.

3.3 Specialized Knowledge/Commonly Known or Reasonably Ascertainable Information

The ECHDC informed LiRo that the Site consists of the southeast adjacent area to the Canalside Ice Rink. Plans are to offer the Site for redevelopment.

3.4 Owner, Property Manager, and Occupant Information

According to records obtained through Erie County GIS, the ECHDC is the property owner of the Site. Mr. Mark Smith, a representative of ECHDC, was identified as the Site *Key Site Manager*.

3.5 Reason for Performing a Phase I ESA

According to the USEPA, the AAIs Final Rule is the process of evaluating a property's environmental conditions and assessing potential liability for any contamination. All appropriate inquiries must be conducted to obtain certain protections from liability under the federal Superfund Law (also known as CERCLA). The purpose of this assessment is to identify RECs, HRECS, CRECS, and environmental issues associated with the Site, as defined in the ASTM E1527-13 Standard.

This Phase I ESA was prepared solely for use of the ECHDC.

4.0 Records Review

4.1 Standard Environmental Record Sources

The government records search developed by EDR includes federal, state, and local government databases of: known or suspected inactive hazardous waste sites; petroleum and chemical bulk storage tank sites; reported spills, including leaking underground storage tanks (USTs); air pollution point sources; toxic wastewater dischargers; and, hazardous waste generators and treatment, storage, and disposal facilities.

A complete list of the federal and state databases searched by EDR is provided in Attachment 1. A summary of the sites identified through the federal and state regulatory agency databases review, including the Site, is provided below.

Federal, State, and City List	Last Update	Site Appears on List	Search Radius	No. of Sites within Search Radius
Superfund Management System (SEMS)	10/10/16	No	½ mile	1
SEMS – Archive	10/10/16	No	½ mile	1
Corrective Action Listed Sites (CORRACTS)	12/12/16	No	1 mile	3
Resource Conservation and Recovery Act (RCRA) Large Quantity Generator (LQG)	12/12/16	No	¼ mile	3
RCRA Small Quantity Generator (SQG)	12/12/16	No	¼ mile	2
RCRA Conditionally Exempt Small Quantity Generator (CESQG)	12/12/16	No	¼ mile	1
NY State Hazardous Waste Site	11/14/16	No	1 mile	3
Leaking Storage Tank Incident Reports (LTANKS)	2/6/17	No	½ mile	23
UST/HIST UST	12/28/16 / 1/1/02	No	¼ mile	4 / 1
Aboveground Storage Tank (AST)	12/28/16	No	¼ mile	2
Engineering Controls (Eng Controls)	11/14/16	No	½ mile	1
Institutional Controls (Inst Controls)	11/14/16	No	½ mile	2
Voluntary Cleanup Program (VCP)	11/14/16	No	½ mile	1
Brownfields	11/14/16	No	½ mile	4
US Brownfields	3/2/17	No	½ mile	1
NY Spills	2/6/17	Yes	⅛ mile	26
RCRA-Non Generator (NonGen)	12/12/16	No	¼ mile	15
Formerly Used Defense Sites (FUDS)	1/31/15	No	1 mile	1
2020 Corrective Action Universe (2020 COR ACTION)	4/22/13	No	¼ mile	1
NY Manifest / PA Manifest / NJ Manifest	1/30/17 / 12/31/15 / 12/31/15	No	¼ mile	12 / 1
Manufactured Gas Plant (MGP)	Not Applicable	No	1 mile	2
Historic Auto Facilities	Not Applicable	No	⅛ mile	5

The following subsections provide a discussion of the Site and surrounding properties, which have been identified within the search radius and listed in the table.

4.1.1 Superfund Management System (SEMS)

Superfund Enterprise Management System (SEMS) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of the USEPA's Superfund Program across the United States. The list was formerly known as Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) which was renamed to SEMS by the USEPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies, and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

The EDR report did not identify the Site or any adjacent properties as SEMS sites. One property was identified within the specified ASTM radius and is located over one-quarter mile from the Site. Based on the location of this site, it is unlikely that this property had an environmental impact on the Site.

4.1.2 SEMS-Archive

Superfund Enterprise Management System – Archive (SEMS-ARCHIVE) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-No Further Remedial Action Planned (NFRAP), renamed to SEMS ARCHIVE by the USEPA in 2015. The USEPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of the USEPA's knowledge, assessment at a site has been completed and that the USEPA has determined that no further steps will be taken to list the site on the NPL unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be a potential NPL site.

The EDR report did not identify the Site or any adjacent properties as SEMS-Archive sites. One property was identified within the specified ASTM radius and is located over one-quarter mile from the Site. Based on the location of this site, it is unlikely that this property had an environmental impact on the Site.

4.1.3 Corrective Action Listed Sites (CORRACTS)

Corrective Action Listed Sites (CORRACTS) is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

The report identified three CORRACTS listed sites within the specified ASTM radius. One property is located within one-eighth mile from the Site while the other two are located between one-half and one mile from the Site. A summary of the CORRACTS site located less than one-eighth mile from the Site is as follows.

1. 189 Tonawanda St. Corp., 51 Perry St. - This site is located approximately 540 feet south-southeast and down-gradient from the Site. The facility was identified as a steel foundry. No open spills or violations were reported.

Because no releases or violations were reported and since the property is located over 500 feet and down-gradient of the Site, it is unlikely that this property had an environmental impact on the Site.

4.1.4 Resource Conservation and Recovery Act (RCRA) Large Quantity Generator (LQG)

RCRAInfo is the USEPA's comprehensive information system providing access to data supporting the RCRA of 1976 and the HSWA of 1984. The database includes selective information on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. Large Quantity Generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

The report identified three RCRA LQG sites within the specified ASTM radius. All three of these sites are located within one-eighth mile of the Site. A summary of these listings are as follows.

1. National Grid Manhole, 107-125 Main St. This site is located approximately 114 feet southeast and up-gradient from the Site. No open spills or violations were reported.
2. General Donovan State Office Building, 125 Main St. This site is located approximately 247 feet east-northeast and up-gradient from the Site. No open spills or violations were reported.
3. NYSDOT Bin: 1001579, Route 5/Buffalo Skyway. This site is located approximately 490 feet north and up-gradient from the Site. No open spills or violations were reported.

Because no releases or violations were reported, it is unlikely that these properties had an environmental impact on the Site.

4.1.5 RCRA Small Quantity Generator (SQG)

RCRAInfo is the USEPA's comprehensive information system providing access to data supporting the RCRA of 1976 and the HSWA of 1984. The database includes selective information on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by the RCRA. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

The report identified two RCRA SQG sites within the specified ASTM radius. One of the listed sites is located over one-eighth mile from the Site while the other is located within one-eighth mile of the Site. A summary of the listing within one-eighth mile of the Site is as follows.

1. Buffalo News, 1 News Plaza. This site is located approximately 369 feet east and up-gradient from the Site. No open spills or violations were reported.

Because no releases or violations were reported, it is unlikely that this property had an environmental impact on the Site.

4.1.6 RCRA Conditionally Exempt Small Quantity Generator (CESQG)

RCRA Conditionally Exempt Small Quantity Generators (CESQG) are sites that generate less than 100 kg of hazardous waste or less than 1 kg of acute hazardous waste per month.

The report identified one RCRA CESQG site within the specified ASTM radius. This one property is within one-eighth mile of the Site. A summary of this listing is as follows.

1. NYSDOT Bin: 552015F, I-190 Over Erie St. This site is located approximately 1 foot northwest and cross-gradient from the Site. No open spills or violations were reported.

Because no releases or violations were reported, it is unlikely that this property had an environmental impact on the Site.

4.1.7 NY State Hazardous Waste Site (SHWS)

The State Hazardous Waste Sites (SHWS) records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the NYSDEC Inactive Hazardous Waste Disposal Sites in New York State.

The report identified three SHWSs within the specified ASTM radius. All three of these sites are located over one-quarter mile from the Site. Based on the distance from the Site, it is unlikely that these properties had an environmental impact on the Site.

4.1.8 Leaking Underground/Aboveground Storage Tank

Leaking Underground Storage Tank (LTANK) sites are sites that contain leaking USTs or ASTs identified from tank test failures, tank failure, or tank overfills. A historic LTANK site is a record of a historical LTANK site that is no longer available as of January 1, 2002.

The report identified 23 LTANK sites within the specified ASTM radii. Four of the 23 properties are located within one-eighth mile of the Site, one property is located between one-eighth and one-quarter mile of the Site, and the remaining are located between one-quarter and one-half mile of the Site. All but one of the LTANK listings have been closed by the NYSDEC. The one open spill is located over one-eighth mile from the Site. Based on the closed status of the spills and/or the distance from the Site, these properties are unlikely to have an environmental impact to the Site.

4.1.9 Underground Storage Tank (UST) / Historic Underground Storage Tank (Hist UST)

UST sites are sites that contain USTs and historic UST sites are a record of historical UST sites that are no longer available as of January 1, 2002.

The EDR report identified four UST and one historic UST site within the specified ASTM radii. For the UST database, three of the properties are located within one-eighth mile of the Site while the remaining one is located between one-eighth and one-quarter mile of the Site. For the historic UST database, the one listed property is located within one-eighth mile of the Site and is also identified as a UST site. The following is a summary of the properties located within one-eighth mile of the Site.

1. Gen Wm J Donovan State Office Building, 125 Main St. This site is located approximately 247 feet east-northeast and up-gradient of the Site. This listing indicates that one closed-removed 30,000-gallon No. 2 fuel oil UST, one closed-removed 4,000-gallon gasoline UST, and one 2,000-gallon closed-removed diesel UST were located at this property. No open spills or violations were reported.
2. Pinto Equipment Rental, 51 Perry St. This site is located approximately 540 feet south-southeast and down-gradient of the Site. This facility included one closed-removed 8,000-gallon No. 2 fuel oil UST. No open spills or violations were reported.

3. Central Transport, 51 Peru St. This site is located approximately 540 feet south-southeast and down-gradient of the Site. This property is identified as both a UST and historic UST site and included one closed-removed 5,000-gallon and one closed-removed 15,000-gallon diesel fuel USTs. No open spills or violations were reported.

Because no releases or violations were reported and since some of the listed properties are located over 500 feet from the Site, it is unlikely that these properties had an environmental impact on the Site.

4.1.10 Aboveground Storage Tank (AST) Database

Aboveground Storage Tank (AST) sites are sites that contain ASTs.

The EDR report identified two AST sites within the specified ASTM radii. Both of these properties are located within one-eighth mile of the Site which are summarized as follows.

1. Gen Wm J Donovan State Office Building, 125 Main St. This site is located approximately 247 feet east-northeast and up-gradient of the Site. This listing indicates that one closed 2,000-gallon gasoline AST was located at this property. No open spills or violations were reported.
2. HSBC Atrium, 95 Washington St. This site is located approximately 470 feet southeast and up-gradient of the Site. This property has three 4,375-gallon ASTS registered. No open spills or violations were reported.

Because no releases or violations were reported, it is unlikely that these properties had an environmental impact on the Site.

4.1.11 Engineering Controls (Eng Controls)

Engineering Control Sites are environmental remediation sites that have engineering controls in place.

The EDR report identified one Eng Control site within the specified ASTM radii; however, based on the listed description, the site was mapped incorrectly. Based on the lack of any accurately plotted Eng Control sites within the area of the Site, no concerns were identified.

4.1.12 Institutional Controls (Inst Controls)

Institutional Control Sites are environmental remediation sites that have institutional controls in place.

The EDR report identified two Inst Control sites within the specified ASTM radii; however, based on the listed descriptions, the two sites were mapped incorrectly. Based on the lack of any accurately plotted Inst Control sites within the area of the Site, no concerns were identified.

4.1.13 Voluntary Cleanup Program (VCP)

The NY Voluntary Cleanup Program (VCP) is a voluntary remedial program that uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

The EDR report identified one VCP site within the specified ASTM radii. This one property is located over one-quarter mile from the Site. Based on the distance from the Site, it is unlikely that this property has had an environmental impact to the Site.

4.1.14 Brownfields

A Brownfields site is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

The EDR report identified four NY Brownfield listed sites within the specified ASTM radius. Two of the listed sites are identified as being located within one-eighth mile of the Site while two are located over one-quarter mile from the Site. However, based on the listed descriptions of the two closer facilities, the two sites were mapped incorrectly. Based on the lack of any accurately plotted Brownfield sites within the area of the Site, no concerns were identified.

4.1.15 US Brownfields

A Brownfields site is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

The EDR report identified one US Brownfield listed site within the specified ASTM radius. The listed site is located within one-eighth mile of the Site and is summarized as follows.

1. Webster Block, Washington and Perry Sts. This site is located approximately 380 feet south-southeast and down-gradient to the Site. History of manufacturing on-site. No open spills or violations were reported.

Because no releases or violations were reported, it is unlikely that this property had an environmental impact on the Site.

4.1.16 NY Spill

NY Spill sites are sites that contain chemical and petroleum spill incidents.

The report identified 130 Main Street, the larger parcel, as including three NY Spills for the Site. A summary of these spills is as follows.

- Canalside, 130 Main St. - This spill, no. 1407916, occurred on October 28, 2014 and involved the release of approximately 40-gallons of ethylene glycol due to piping failure at the ice rink. This spill was closed by the NYSDEC on December 5, 2014.
- Within a Pipe Case, 130 Main St. - This spill, no. 1407917, was identified on October 31, 2014 and was determined to be a duplicate of spill no. 1407916 above. As a result, this spill was closed by the NYSDEC on October 31, 2014.
- Pike Co., 130 Main St. – This spill, no. 1410926, occurred on February 16, 2015 and involved the release of approximately 1-gallon of glycol due to the cold temperatures. This spill was closed by the NYSDEC on February 17, 2015.

Based on the spills have been addressed to the satisfaction of the NYSDEC, these spills are considered HRECs to the Site.

In addition to the spills listed above for the greater parcel, a September 2010 Phase I ESA completed by LiRo on the greater parcel identified a glycol spill which occurred during the demolition activities of the Aud. The NYSDEC was contacted and Spill No. 0902966 was assigned. The spill was cleaned, all waste was properly disposed of off-site, and the NYSDEC closed the spill file.

LiRo also has records indicating that Spill No. 1201860 was assigned to the greater parcel on May 1, 2012. This spill listing resulted from the discovery of discolored soils, odors, and elevated photo-ionization detected (PID) readings during excavation activities. The impacted soils were excavated, stockpiled, and disposed of off-site as petroleum-contaminated soil. End-point confirmation soil samples were collected and reported no VOCs at concentrations above Soil Cleanup Levels (SCLs). However, SVOCs were reported at concentrations above SCLs in both (initial and closure) samples. Finger-print analysis of the impacted soil reported a pattern of possible weathered No. 2 fuel oil. The presence of additional SVOCs are indicative of urban fill being present at the Site. Following proper cleanup of this spill, the NYSDEC classified the spill as closed on February 26, 2014.

Since both of these spills have been addressed to the satisfaction of the NYSDEC, they are considered HRECs.

The report also identified 23 additional NY Spills within the specified ASTM radii. All 23 spills have been closed by the NYSDEC. Because there are no active releases associated with these spill sites, it is unlikely that they had an environmental impact on the Site.

4.1.17 RCRA – Non Generator

RCRA sites are sites that generate, transport, store, treat, and/or dispose of hazardous waste and RCRA-NonGen sites are sites that do not presently generate hazardous waste.

The EDR report identified 15 RCRA-Non Generator (RCRA-NonGen) sites within the specified ASTM radii. Nine properties are identified as being located within one-eighth mile of the Site while the remaining six properties are located between one-eighth and one-quarter mile of the Site. However, based on the listed descriptions of three of the 9 closer facilities, these sites were miss-mapped. The following is a summary of the properties actually located within one-eighth mile of the Site.

1. NYSDOT Bin: 1-00157B, Rte. 5 northbound to Pearl St. This site is located approximately 1 foot northwest and up-gradient to the greater parcel. No open spills or violations are on file for this site.
2. NYSDOT Bin: 1-00157C, Rte. 5 northbound onto northbound I-190. This site is located approximately 1 foot northwest and up-gradient to the greater parcel. No open spills or violations are on file for this site.
3. NYS Thruway Auth Bin 100157B, Buffalo Skyway to Pearl St. This site is located approximately 4 feet northwest and up-gradient to the greater parcel. No open spills or violations are on file for this site.
4. NYSDOT Bin: 1001639, Main St. over I-190. This site is located approximately 179 feet east-southeast and up-gradient to the Site. No open spills or violations are on file for this site.
5. Niagara Mohawk A National Grid Co., Scott St. and Washington St. This site is located approximately 320 feet east-southeast and up-gradient to the Site. No open spills or violations are on file for this site.
6. 189 Tonawanda St. Corp., 51 Perry St. This site is located approximately 540 feet south-southeast and up-gradient to the Site. No open spills or violations are on file for this site.

Because no releases or violations were reported and since one of the listed properties is located over 500 feet from the Site, it is unlikely that these properties had an environmental impact on the Site.

4.1.18 Formerly Used Defense Sites (FUDS)

The FUDS listing includes locations of Formerly Used Defense Sites (FUDS) where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

The EDR report identified one FUDS site within the specified ASTM radii. The list site is located over one-half mile from the Site. Based on the distance from the Site, this property is not anticipated to have had an environmental impact on the Site.

4.1.19 2020 Corrective Action Universe Sites (2020 COR ACTION)

The USEPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe (2020 COR ACTION). This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

The EDR report identified one 2020 COR Action site within the specified ASTM radii. The listed site is located within one-eighth mile of the Site and is summarized as follows.

1. 189 Tonawanda St. Corp., 51 Perry St. - This site is located approximately 540 feet south-southeast and down-gradient from the Site. The facility was identified as a steel foundry. No open spills or violations were reported.

Because no releases or violations were reported and since the listed property is located over 500 feet from the Site, it is unlikely that this property had an environmental impact on the Site.

4.1.20 NY Manifest / PA Manifest

The Manifest database lists and tracks hazardous waste from the generator through transporters to a treatment, storage, disposal (TSD) facility.

The EDR report identified 12 NY Manifest sites, one PA Manifest site, and one NJ Manifest Site (which is also listed as a NY Manifest site) within the specified ASTM radii. Six of the listed properties are located within one-eighth mile of the Site while the remaining are located between one-eighth and one-quarter mile of the Site. The following is a summary of the properties located within one-eighth mile and at equal elevation or up-gradient of the Site.

1. NYSDOT Bin: 1-00157B, Rte. 5 northbound to Pearl St. This site is located approximately 1 foot northwest and up-gradient to the Site. No open spills or violations are on file for this site.
2. NYSDOT Bin: 1-00157C, Rte. 5 northbound onto northbound I-190. This site is located approximately 1 foot northwest and up-gradient to the Site. No open spills or violations are on file for this site.
3. National Grid Manhole, 107-125 Main St. This site is located approximately 114 feet southeast and up-gradient to the Site. No open spills or violations are on file for this site.
4. General Donovan State Office Building, 125 Main St. This site is located approximately 247 feet east-northeast and up-gradient to the Site. No open spills or violations are on file for this site.
5. Erie Canal Harbor Development Corp., 125 Main St. This site is located approximately 588 feet east-northeast and up-gradient to the Site. No open spills or violations are on file for this site.

6. Buffalo News, 1 News Plaza. This site is located approximately 589 feet east and up-gradient to the Site. No open spills or violations are on file for this site.

Because no releases or violations were reported and since two of the listed properties are located over 500 feet from the Site, it is unlikely that these properties had an environmental impact on the Site.

4.1.21 Manufactured Gas Plants

The EDR report identified two manufactured gas plant (MGP) within one mile of the Site. Manufactured gas plants were used between the 1800's and 1950's to produce a gas that could be distributed and used as fuel. The byproduct from this process includes coal tar, sludges, and oils, which was frequently disposed of directly at MGP sites. These properties are both located over one-half mile from the Site. Based on the location of these properties, it is unlikely that these properties had an environmental impact on the Site.

4.1.22 Historic Auto Facilities

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

The EDR report identified five EDR Historic Auto facilities within one-eighth mile of the Site. A summary of these listings is as follows.

1. Nicholas M. Bonavito Auto Repair, 19 Scott St. This site is located approximately 299 feet east-southeast and up-gradient to the Site. 1946-1950. No open spills or violations are on file for this site.
2. Edwin Seeger Filling Station, 40 Main St. This site is located approximately 568 feet south and down-gradient to the Site. 1940. No open spills or violations are on file for this site.
3. Walter G. Sattler Filling Station, 56 Main St. This site is located approximately 584 feet south and down-gradient to the Site. 1935. No open spills or violations are on file for this site.
4. 1 HSBC Center. This site is located approximately 608 feet north-northeast and up-gradient to the Site. Best Brakes, Inc. – 2004. No open spills or violations are on file for this site.
5. John Enders Filling Station, 163 Main St. This site is located approximately 624 feet north-northeast and up-gradient to the Site. 1950. No open spills or violations are on file for this site.

Because of the distance from the Site, it is unlikely that these properties had an environmental impact on the Site.

4.2 Historical Use Information on the Property/Adjoining Properties

4.2.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps (Sanborns) were obtained from EDR (Attachment 2). Maps dating 1889, 1899, 1925, 1951, 1981, and 1986 were reviewed to determine past or current land uses on and in the immediate vicinity of the Site that may be of environmental concern. A summary of the Sanborn maps is below.

Year	Comments
1889-1925	**Site:** The Site appears to be developed with various commercial buildings/storefronts and a portion of Lake Street. Specific operations were identified as including wholesale fish, H.J. Heise Co., Union Hotel, wholesale grocer, and a wagon shed. **Surrounding Properties:** The surrounding area appears to be developed with various commercial buildings, industrial operations, and storefronts. Operations of potential environmental concern included wire works, junk yard, medicine manufacturing, boot and shoe manufacturing, copper and sheet iron works, printing facility, refrigerator/birdhouse/bicycle manufacturing, soap works, flavoring extracts manufacturing, small oil manufacturing facility, a railroad station, machine company, and a sheet metal works facility.
1951-1986	**Site:** The Site appears to be developed with the southeast portion of the Buffalo Memorial Auditorium. The Site specifically included some parking, general outdoor space, and a portion of the auditorium itself. **Surrounding Properties:** The surrounding area appears to be much less developed than previously noted. Much of the area is now utilized for parking for the auditorium. The railroad station remains to the east of the Site in 1951. A truck repair facility is also noted in 1951 to the southeast of the Site along with an asbestos warehouse in 1981.

Review of the Sanborn Maps have identified surrounding land usage posing an environmental concern to the Site. Such land usage included wire works, junk yard, medicine manufacturing, boot and shoe manufacturing, copper and sheet iron works, printing facility, refrigerator/birdhouse/bicycle manufacturing, soap works, flavoring extracts manufacturing, small oil manufacturing facility, a railroad station, machine company, a sheet metal works facility, a truck repair facility, and an asbestos warehouse. These surrounding operations may have released contaminants to soil or groundwater and are considered a REC.

4.2.2 Historical Topographic Maps

LiRo reviewed available historical USGS Topographic Quadrangle Maps, dating 1894, 1901, 1946, 1948, 1949, 1950, 1965, and 2013, for information regarding past uses of the Site. The Topographic Quadrangle Maps were supplied through EDR. Copies of the topographic maps are included in Attachment 3.

Year	Comments
1894-1901	**Site:** The Site appears to be developed with multiple smaller structures. Due to the scale of the topographic maps, the nature of the on-site operations cannot be determined. **Surrounding Properties:** The surrounding area appears to also be developed with multiple structures. The nature of the operations cannot be determined.

Year	Comments
1946-1965	**Site:** The Site appears to be developed with the southeast portion of a larger structure which is anticipated to be the former Buffalo Memorial Auditorium. **Surrounding Properties:** Due to the highly developed nature of the area, minimal development is actually indicated on the map. Only larger structures are identified to the east and west. The nature of the operations cannot be determined.
2013	Due to the highly developed nature of the area of the Site, no development is indicated on this map.

The review of historical USGS Topographic Quadrangles did not indicate any RECs, HREC, or CREC at the Site or surrounding area.

4.2.3 Historical Aerial Photographs

Historical aerial photographs of the Site and surrounding areas were provided by EDR in order to identify historical land use that may have involved hazardous substances and petroleum products. These photographs date 1938, 1951, 1959, 1962, 1966, 1978, 1983, 1985, 1995, 2006, 2008, 2009, and 2011. Copies of the aerial photographs are included in Attachment 4.

Year	Comments
1938	**Site:** The Site appears to include one structure. The remainder of the Site appears as disturbed land, possibly from recent demolition activity. **Surrounding Properties:** The surrounding area appears to include some larger structures, likely commercial or industrial in nature, railroad tracks, and disturbed land from what appears to be recent demolition activity.
1951-2008	**Site:** The Site appears to be the southeast portion of a larger structure which is likely the Buffalo Memorial Auditorium. Some exterior space is also included on the Site. **Surrounding Properties:** The surrounding area appears to include the Buffalo Memorial Auditorium to the north and commercial/industrial operations to the south, east, and west from 1951 through 1966. The existing skyway appears to the west of the Site between 1951 and 1959. By 1978, many previously noted surrounding structures were razed and much of the surrounding area was used for parking.
2009	**Site:** The Site appears as noted in 2008. **Surrounding Properties:** The surrounding area appears primarily as noted in 2008; however, the majority of the Buffalo Memorial Auditorium has been razed. Demolition activities appear to be underway at the time of the aerial photograph since the southern portion of the structure remains in place.
2011	**Site:** The Site appears as vacant land, possibly a parking lot. **Surrounding Properties:** The surrounding area appears to include primarily parking with some commercial/industrial activity to the northeast, southeast, and east.

The review of aerial photographs did not indicate any RECs, HREC, or CREC at the Site or surrounding area.

4.2.4 City Directories

A review of historical city directories from 1925 through 2014 was conducted by EDR. The following table provides a general summary of Site and surrounding uses according to the city directories and specifically identifies tenants of potential environmental concern. A copy of the historical city directories can be found in Attachment 5.

The city directory search performed by EDR searches all addresses within 660 feet of the target property. In this case, the only addresses provided by the search were for the Site itself and information pertaining to surrounding properties.

Based on a review of the data provided, very little information was identified for 130 Main Street. However, various addresses were identified for the Buffalo Memorial Auditorium including the following.

Address	Dates / Comments
128 Main St.	1940-1946: Buffalo Memorial Auditorium
140 Main St.	1960-1992: Memorial Auditorium
150 Main St.	1940-1946: Buffalo Memorial Auditorium

None of the previous operations for the Site's larger parcel are considered RECs to the Site.

The following table summarizes operations in the surrounding area that are considered RECs.

Address	Dates / Comments
65 Main St.	1925: Washington Plating Works, Tripp Plating Works, and Diamond Metalware Manufacturing Co.
67 Main St.	1940: Trailer Sales and Service 1930: Joseff Hardware Manufacturer
68 Main St.	1955-1960: Great Eastern Gas Corp. 1950-1955: Hartwell Co. (chemical manufacturer), Newsprint Corp. of American
70 Main St.	1940-1950: Fomes Co. (leather)
72 Main St.	1925-1940: West Disinfecting Co.
74 Main St.	1925: Buff Waste Material Co.
76 Main St.	1955: Hoffman and Sons (bicycle and lawn mower parts manufacturer) 1935: Kentucky Trailer and Equipment Co.
78 Main St.	1955-1960: Hoffman and Sons (bicycle and lawn mower parts manufacturer) 1940: Davies Refrigeration Co. 1935: Schantz, Inc. (refrigeration) 1930: Farrar and Trefts, Inc. (boiler makers)
84-92 Main St.	1930-1964: Claxton Asbestos Co.
91 Main St.	1930-1940: Kast Copper and Sheet Iron Co.
94 Main St. / 2 Scott St.	1930-1946: Railroad
100 E. Main St. / 100 Main St.	1925: Bison Tire Co., Inc.
108 Main St.	1925: Buff Forge Co.
127 Main St.	1992: Noco Motor Fuels
137 Main St.	1930-1935: Ransom Son and Co. (medicine manufacturer)
1952 Main St.	1925: Firestone Tire and Rubber Co. and Meyer Motor Car Co.
156 Main St.	1925: People's Taxi Service
160 Main St.	1925: Buff Cadillac Corp.
163 Main St.	1950: Enders Gas Station
10 Exchange St.	1925: JM Guenther Printing Co., Inc.
12 Exchange St.	1950: D&T Cleaners. 1935-1946: Mercurio Shoe Repair
14 Exchange St.	1930-1946: Frontier Glove Co., Inc.

Address	Dates / Comments
18 Exchange St.	1930: Gar Oak Leather Co.
22 Exchange St.	1940-1955: Thasseus Laszewski Gas Station
1 News Plaza	2010-2014: Buffalo News, Inc. and Associated Press
8-18 Pearl St.	1930-1935: Industrial Paint Co.
12 Pearl St.	1925: Sherhlow Machine Manufacturing Corp., Gross Supply Co. (machinery), and Pierce Arrow Sales Co.
14 Pearl St.	1930-1935: Lankler Truck Manufacturing
15 Scott St.	1946-1950: Kast Copper and Sheet Iron Co.
19 Scott St.	1946-1950: Bonavitos Truck and Auto Service 1930: Universal Carloading and Distributing Service Steel Co.
38 Washington St.	1930: Frontier Engine Works, Inc.
40 Washington St.	1964: Bowers Battery and Spark Plug Co.
58 Washington St.	1935-1940: Mey Chain Belt Co.
66 Washington St.	1935-1964: Niagara Asbestos Co., Inc.
82 Washington St.	1930: Mev Chain Belt Co.
84-86 Washington St.	1935: Service Boiler Repair Works
100-108 Washington St.	1960-1964: Niagara Asbestos Co., Inc.
110 Washington St.	1940: Wilson Chemical Feeders, Inc.
111-115 Washington St.	1930-1955: Lehigh Valley Railroad 1946-1950: Patterson and Son Trucking 1935-1940: Downing Sons, Inc. (trucking)
121 Washington St.	1946-1955: Lehigh Valley Railroad/Railway Express Agency, Inc.
125 Washington St.	1960-1970: Buffalo Evening News
174 Washington St.	1960-1964: Teddy's Service Station
177 Washington St.	1950-1955: Socony Vacuum Oil Co.
183 Washington St.	1964: Greco Service Station 1960: Eds Service Station 1946: Socony Vacuum Oil Corp. Gas Station
184 Washington St.	1935: Seager Auto Garage

As indicated above, historic on-site operations have included the Buffalo Memorial Auditorium from at least 1940 through at least 1992. Various surrounding operations of potential environmental concern were identified including plating/metals works/manufacturing, trailer sales and service, hardware manufacturer, gas corporations, chemical manufacturer, newspaper/printing operations, leather companies, Buff Waste Material Co., bicycle and lawn mower parts manufacturer, refrigeration company, boiler makers, asbestos companies, the Lehigh Railroad, tire companies, medicine manufacturer, motor car and truck companies/dealerships, auto repair facilities, gas stations, D&T Cleaners, Industrial Paint Co., Frontier Engine Works, Inc., Bowers Battery and Spark Plug Co., and Mey Chain Belt Co. These operations may have released contaminants to soil or groundwater and are considered RECs.

4.2.5 Municipal Building Department

According to the City of Buffalo municipal records, the Site consists of the southeast portion of the parcel identified as Section, Block, and Lot number 111.17-14-1 which is addressed at 130 Main Street. This parcel is owned by the ECHDC and measures 4.64 acres. The greater parcel consists of an ice rink and formerly included the Buffalo Memorial Auditorium (Aud). The records indicate that the parcel has been connected to municipal sewer, municipal water, natural gas, and electric.

Based on the City of Buffalo Building Department permit records, no RECs were identified for the Site or the greater parcel. However, the Bureau of Fire Prevention Department records indicate that a 250-gallon diesel tank was removed from a room within the former Aud in 2008. The records also indicate that a 550-gallon diesel fuel UST was installed on-site in May 1951. This tank was installed to the left of the former loading platform. Based on historical images of the former Aud, the loading platform was located along at the southwest corner of the Aud structure, which is not a portion of the area included within this assessment.

A copy of the City of Buffalo municipal records is included in Attachment 6.

4.3 Foil Requests

LiRo submitted Freedom of Information Law (FOIL) requests to ECDOH, NYSDOH, NYSDEC, and USEPA. Correspondence with these agencies is provided in Attachment 8.
The NYSDEC provided three spill reports for the Canalside site addressed at 130 Main Street. The Site is a portion of this greater parcel. A summary of these spills is as follows.

- Spill No. 1407916 occurred October 28, 2014 and involved a release associated with the piping at the Canalside Ice Rink. The material released was a solution of 40% ethylene glycol. Safety Kleen addressed the spill and the spill was closed December 5, 2014.
- Spill No. 1407917 occurred October 31, 2014 and was determined to be a duplicate spill is No. 1407916.
- Spill No. 1410926 occurred February 16, 2015 and involved an equipment failure release. The material released was addressed and the spill was closed February 17, 2017.

Based on a response from the NYSDOH, no records are on file for the Site.

At the time this report was prepared, LiRo had not received complete records from these agencies pertinent to the Site. ECHDC will be notified of any relevant Site information once the FOIL information has been received and reviewed.

4.4 Vapor Migration

To migrate or migration refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

Based on LiRo's review of the regulatory records and observations of the Site, vapor migration is not a current concern at the Site since no structures are present. However, if Site redevelopment is planned, vapor migration should be re-evaluated at that time.

4.5 Previous Studies

As part of this Phase I ESA, LiRo reviewed the September 2010 Phase I ESA prepared by LiRo for the Aud Block. This Phase I ESA included the former Buffalo Memorial Auditorium (Aud) which is the greater parcel associated with the Site included within the current Phase I ESA. Based on this report, a 550-gallon diesel UST was installed on the southwest corner of the parcel in 1958. (This is the same UST mentioned in Section 4.2.5 above.)

The 2010 Phase I ESA also mentioned the presence of two other USTs which were associated with an on-site generator or boiler. A geophysical survey conducted in 2006 to identify the location of these tanks showed no evidence of buried USTs. It was also noted that the majority of the greater parcel was excavated in conjunction with the demolition and site infrastructure construction projects. Environmental samples collected in conjunction with the work showed typical historic fill contaminants (i.e., metals and polycyclic aromatic hydrocarbons (PAHs).

A glycol spill was also noted to have occurred during the demolition activities of the Aud. The NYSDEC was contacted and Spill No. 0902966 was assigned. The spill was cleaned, all waste was properly disposed of off-site, and the NYSDEC closed the spill file.

LiRo also has records indicating that Spill No. 1201860 was assigned to the greater parcel on May 1, 2012. This spill listing resulted from the discovery of discolored soils, odors, and elevated photo-ionization detected (PID) readings during excavation activities in the southwest portion of the former Aud. The impacted soils were excavated, stockpiled, and disposed of off-site as petroleum-contaminated soil. Following cleanup of this spill, the NYSDEC classified the spill as closed on February 26, 2014. Since this spill has been addressed to the satisfaction of the NYSDEC, this spill is considered a HREC.

LiRo reviewed analytical data for 12 soil borings that were advanced at 130 Main Street in June 2014. Based on the map provided, borings B-4 through B-11 (8 borings total) were advanced on the Site while the remaining boring were advanced on the west adjacent property.

The eight on-site borings were advanced to various depths ranging from 4 to 16 feet below grade (ftbg). No laboratory results were provided for boring B-11.

Based on a review of the analytical results, multiple PAHs were reported at concentrations exceeding the Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential Soil Cleanup Objectives (SCOs), Commercial SCOs, and/or NYSDEC CP-51 SCLs Table 1 – Supplemental SCOs (SSCOs) in B-9 and B-10. The PAH exceedances included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. Two metals were reported at concentrations exceeding Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential SCOs, Commercial SCOs, and/or NYSDEC CP-51 SCLs Table 1 –SSCOs in all seven samples analyzed. Metal exceedances included iron and mercury. Based on the reported contaminants and concentrations, the site would likely qualify for acceptance into New York State's Brownfield Cleanup Program.

No VOC or PCB exceedances were reported.

The analytical data associated with this previous investigation is provided in Attachment 10.

5.0 Site Reconnaissance

On May 3, 2017, Amy Hewson of LiRo performed a site reconnaissance. Ms. Hewson was unaccompanied at the time of the Site reconnaissance. The site reconnaissance included a visual inspection and a site walk around the property to identify any evidence of activities or conditions that may be relevant to this assessment. Site photographs are included in Attachment 7. The Site Condition Report which summarizes the observations made during the Site reconnaissance is included in Attachment 9.

Overview

The subject Site includes lawn area and sidewalks which are associated with the Canalside development project. The sidewalks consist of a poured concrete sidewalk and an asphalt paved sidewalk. One metal portable-container type-building was also noted on the easterly portion of the Site. The Site has an approximate 10 percent slope from northwest to southeast. There are no surficial water bodies (including pits, ponds, or lagoons) located within the boundaries of the Site. However, the Buffalo River is located approximately 590 feet southwest of the Site.

The Site is located within an area that is supplied with municipal sewer, water, natural gas, and electric. Based on field observations, municipal sewer and water do not appear to be connected to the Site. At the time of the Site reconnaissance, no solid, hazardous, or regulated waste was noted to be generated on-site. However, solid waste is likely generated during public activities at the Site.

5.1 Methodology and Limiting Conditions

At the time the site visit was conducted, LiRo performed a general walk-over of the Site. Access was not granted to the interior of the metal portable-container type-building located on the east portion of the Site. LiRo does not anticipate any environmental concerns within metal portable-container type-building.

5.2 Observations

The following sections summarize the observations made during LiRo's site reconnaissance on May 3, 2017.

5.2.1 Current Uses of the Property

The Site lot is characterized by the following.

Address	Development
A portion of 130 Main Street (southeast corner of parcel)	Lawn area and sidewalks associated with the Canalside development

5.2.2 Hazardous Substances and Petroleum Products in Connection with identified Uses

At the time of the site reconnaissance, there was no evidence of hazardous and/or regulated materials on-site. There were no visible signs of unidentified substance containers (unlabeled drums, etc.) noted at the time of the Site inspection.

5.2.3 Storage Tanks

No chemical or petroleum storage tanks were observed at the Site.

5.2.4 Heating/Cooling

Since no permanent structures were noted, no heating or cooling systems are present.

5.2.5 Drains or Pits

No floor drains or sumps were noted on-site. Storm drains are located along the main roadways but were not noted on-site.

5.2.6 Odors

LiRo did not detect the presence of odors on the Site indicative of acute releases of hazardous substances or petroleum products.

5.2.7 Pools of Liquid

No pools of liquid were observed.

5.2.8 Drums

There were no drums observed at the Site.

5.2.9 Polychlorinated Biphenyls (PCBs)

There were no suspect PCB-containing materials (e.g., transformers, hydraulic lifts, etc.) located on-site at the time of site inspection.

5.2.10 Surface Depressions, Ponds and Lagoons

There are no surface depressions, ponds, or lagoons located on the Site or adjoining properties.

5.2.11 Stained Soil or Pavement

There were no stained soils, stained pavement, or corroded surfaces noted on-site.

5.2.12 Stressed Vegetation

No evidence of stressed vegetation was observed at the Site.

5.2.13 Solid Waste

At the time of the Site reconnaissance, no solid, hazardous, or regulated waste was noted to be generated on-site. However, solid waste is likely generated during public activities at the Site. There were no visible signs of unidentified substance containers (unlabeled drums, etc.) noted at the time of the Site inspection.

5.2.14 Waste Water

Municipal sanitary and storm sewers service the area of the Site. There was no evidence of sewer connection to the Site at the time of the Site reconnaissance. Operations on the Site are not believed to produce wastewaters that require any treatment or monitoring. There was no evidence of a current or historic private septic system or cesspool on the Site.

5.2.15 Wells

The Site is located within an area that is served by a municipal water supply system. There was no evidence of water connection to the Site at the time of the Site reconnaissance. There was no evidence of active or abandoned supply wells, drywells, irrigation wells, or monitoring wells on-site.

5.2.16 Suspect Asbestos Containing Materials (ACMs)

Since the Site is vacant, no suspect ACMs were noted.

5.2.17 Suspect Lead-Based Paint

Since the Site is vacant, no suspect LBP was noted.

5.2.18 Mold

Since the Site is vacant, no mold was noted.

5.2.19 Other Environmental Concerns

No other environmental concerns were noted at the time of the site reconnaissance. However, it should be noted that urban fill is present at the Site. Urban historical fill is prevalent in the area of the Site and frequently contains metals or organic compounds at concentrations which exceed NYSDEC Part 375 Soil Cleanup Objectives.

6.0 Interviews

6.1 Current Owner and Occupants

According to records obtained through Erie County GIS, the ECHDC is the property owner of the Site. Mr. Mark Smith, associated with the Site for approximately 10 years, provided background information about the Site.

7.0 Findings

Based on information gathered during this Phase I ESA, the following known or suspect RECs were identified.

- As part of this Phase I ESA, LiRo reviewed analytical data for 12 soil borings that were advanced at 130 Main Street in July 2014. Based on the map provided, borings B-4 through B-11 were advanced on the Site while the remaining boring were advanced on the west adjacent property. The eight on-site borings were advanced to various depths ranging from 4 to 16 ftbg. While B-11 was included on the chain-of-custody to the lab, no results were provided for that sample. Based on a review of the analytical results, multiple PAHs were reported at concentrations exceeding the Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential SCOs, Commercial SCOs, and/or NYSDEC CP-51 SCLs Table 1 –SSCOs in B-9 and B-10. The PAH exceedances included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. Two metals were reported at concentrations exceeding Part 375-6.8 (b) Restricted Use (Track 2) Restricted Residential SCOs, Commercial SCOs, and/or NYSDEC CP-51 SCLs Table 1 –SSCOs in all seven samples analyzed. Metal exceedances included iron and mercury. The presence of these PAHs and metals is indicative of urban historic fill and is considered a REC. Based on the reported contaminants and concentrations, the site would likely qualify for acceptance into New York State's Brownfield Cleanup Program.
- Based on a review of the Sanborn Maps and City Directories, surrounding land usage posing a potential environmental concern to the Site included wire works, junk yard, medicine manufacturing, boot and shoe manufacturing, copper and sheet iron works, printing facility, refrigerator/birdhouse/bicycle manufacturing, soap works, flavoring extracts manufacturing, small oil manufacturing facility, a railroad station, machine company, a sheet metal works facility, plating/metals works/manufacturing, trailer sales and service, hardware manufacturer, gas corporations, chemical manufacturer, newspaper/printing operations, leather companies, Buff Waste Material Co., bicycle and lawn mower parts manufacturer, refrigeration company, boiler makers, asbestos companies, the Lehigh Railroad, tire companies, motor car and truck companies/dealerships, auto repair facilities, gas stations, D&T Cleaners, Industrial Paint Co., Frontier Engine Works, Inc., Bowers Battery and Spark Plug Co., and Mey Chain Belt Co. These surrounding operations are considered RECs.

HRECs are used to identify past releases that have been addressed to the satisfaction of the applicable regulatory authority and which do not subject the property to any required controls. The following HRECs were also identified.

- The regulatory agency records identified 130 Main Street, the larger parcel, as including three NY Spills for the Site. A summary of these spills is as follows: 1) Canalside, 130 Main St. - This spill, no. 1407916, occurred on October 28, 2014 and involved the release of approximately 40-gallons of ethylene glycol due to piping failure at the ice rink. This spill was closed by the NYSDEC on December 5, 2014; 2) Within a Pipe Case, 130 Main St. - This spill, no. 1407917, was identified on October 31, 2014 and was determined to be a duplicate of spill no. 1407916 above. As a result, this spill was closed by the NYSDEC on October 31, 2014; and, 3) Pike Co., 130 Main St. – This spill, no. 1410926, occurred on February 16, 2015 and involved the release of approximately 1-gallon of glycol due to the cold temperatures. This spill was closed by the NYSDEC on February 17, 2015. Based on LiRo's review of the spill details for the above listed spills, it appears that these spills are associated with the larger parcel and did not involve the Site. These former spills are considered HRECs.

- In addition to the spills listed above, a September 2010 Phase I ESA completed by LiRo on the greater parcel identified a glycol spill which occurred during the demolition activities of the former Aud. The NYSDEC was contacted and Spill No. 0902966 was assigned. The spill was cleaned, all waste was properly disposed of off-site, and the NYSDEC closed the spill file. As this spill has been addressed to the satisfaction of the NYSDEC< this spill is considered an HREC.
- LiRo also has records indicating that Spill No. 1201860 was assigned to the greater parcel on May 1, 2012. This spill listing resulted from the discovery of discolored soils, odors, and elevated PID readings during excavation activities in the southwest portion of the former Aud. The impacted soils were excavated, stockpiled, and disposed of off-site as petroleum-contaminated soil. Following cleanup of this spill, the NYSDEC classified the spill as closed on February 26, 2014. Since this spill has been addressed to the satisfaction of the NYSDEC, it is considered a HREC.

No CRECs, de minimis conditions, or environmental issues were identified.

8.0 Opinion of the Environmental Professional

It is based on LiRo professional opinion that the potential exists for SVOC and metal impacts at the Site based on previous soil testing and the presence of historic fill at the Site.

9.0 Data Gaps

This report was prepared at the request of the ECHDC and includes information that was available at the time it was prepared. Complete records have yet to be supplied to LiRo from the relevant agencies where FOIL requests have been submitted. The ECHDC will be notified of any relevant Site information once the FOIL information has been reviewed.

10.0 Conclusions

LiRo has conducted this Phase I ESA in accordance with the scope and limitations of ASTM practice E1527-13 and USEPA AAI Final Rule. Any exceptions are noted in Section 1.4. Based on the findings of the Phase I ESA, LiRo recommends the following relative to the known or suspect RECs identified above.

- Prior to redevelopment, an ASTM-compliant Phase II Environmental Site Investigation (ESI) should be performed.
- If future redevelopment involves earthwork, a soil management plan should be established to properly identify and manage any potentially impacted historical fill during construction and to prevent exposure of future Site users to any identified impacted soil, groundwater, or soil vapor.

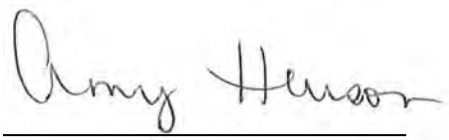
11.0 Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of this part.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

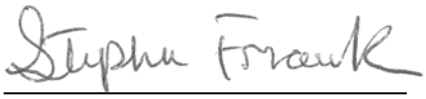
The Qualifications for the following Environmental Professionals is included within Attachment 11.

Report Prepared By:



Amy Hewson
Senior Environmental Analyst

Report Reviewed By:



Stephen Frank
Senior Geologist

Report Reviewed By:

Robert Kreuzer
Project Manager

REFERENCES

Environmental Data Resources, Inc. *The Sanborn Fire Insurance Maps.* Inquiry No.: 4918761.3, dated April 26, 2017.

Environmental Data Resources, Inc. *EDR Historical Topo Map Report.* Inquiry No.: 4918761.4, dated April 26, 2017.

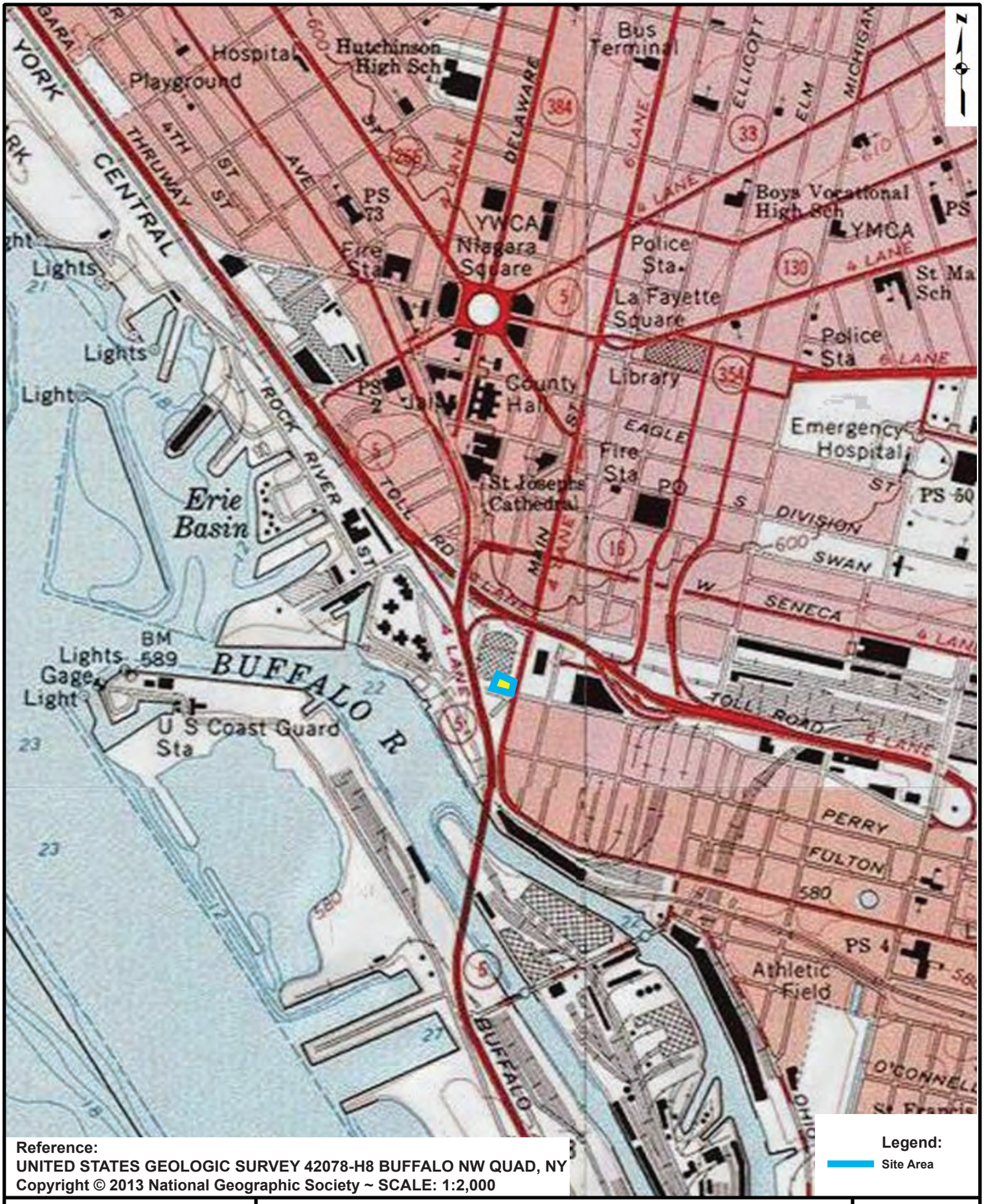
Environmental Data Resources, Inc. *The EDR Aerial Photo Decade Package.* Inquiry No.: 4918761.9, dated April 26, 2017.

Environmental Data Resources, Inc. *The EDR Radius Map Report with GeoCheck.* Inquiry No.: 4918761.2s, dated April 26, 2017.

Environmental Data Resources, Inc. *The EDR-City Directory Abstract.* Inquiry No.: 4918761.5, dated April 26, 2017.

City of Buffalo Municipal Records, May 2017.

FIGURES



Reference:
UNITED STATES GEOLOGIC SURVEY 42078-H8 BUFFALO NW QUAD, NY
Copyright © 2013 National Geographic Society ~ SCALE: 1:2,000

Legend:
Site Area

LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

SOUTH AUD BLOCK
TOPOGRAPHIC LOCATION MAP

FIGURE NO.

1

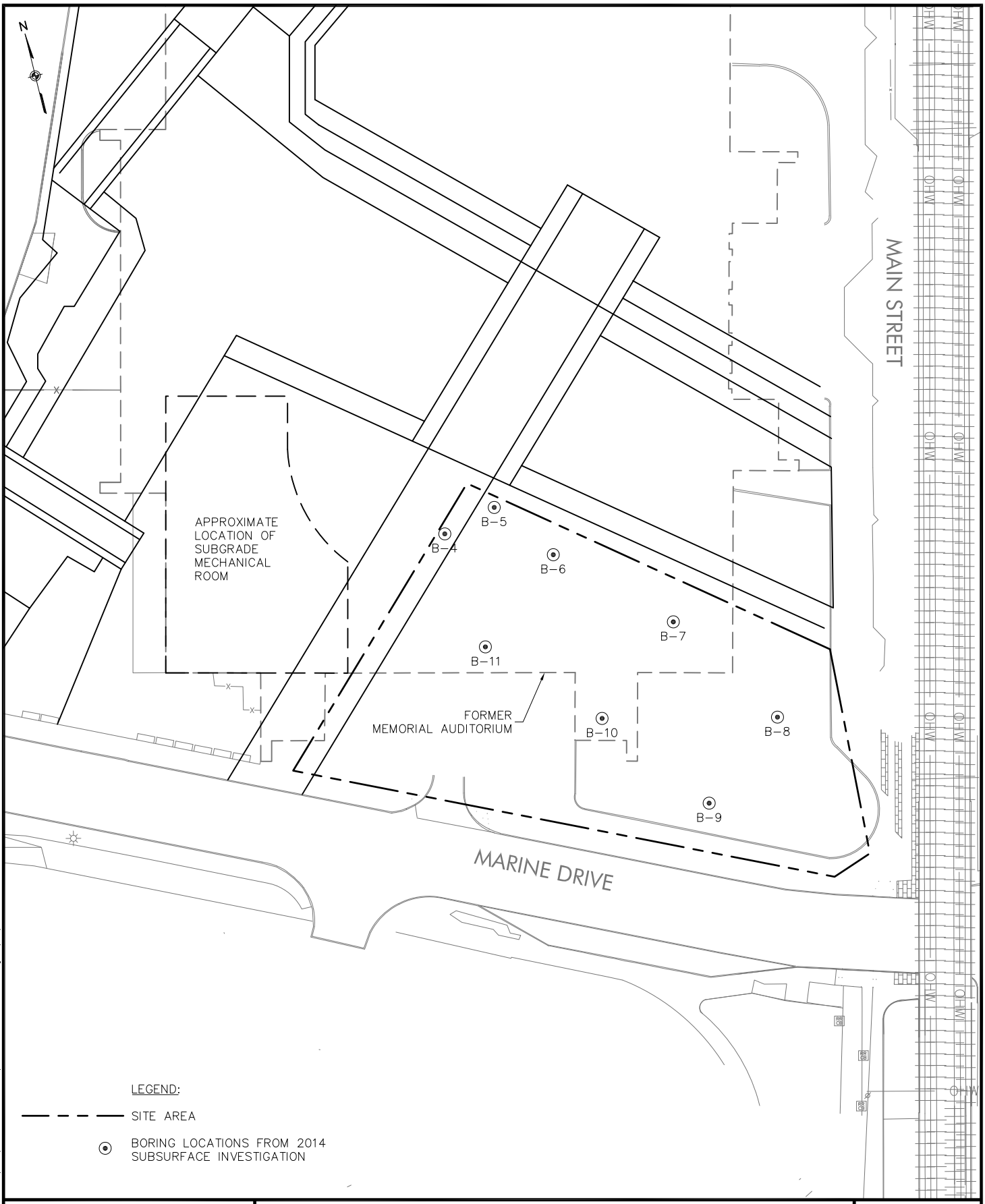
J:\09-75-104 Canal Side CM\CAD\South Aud Phase I\SOUTH AUD TOPO MAP.AI

LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

SOUTH AUD BLOCK
SITE AREA MAP

FIGURE NO.
2

J:\09-75-104 Canal Side CM\CAD\South Aud Phase I\SOUTH AUD SITE MAP.AI



LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

SOUTH AUD BLOCK SITE PLAN

FIGURE NO.

3

J:\09-75-104 Canal Side CM\CAD\South Aud Phase I\SOUTH AUD SITE PLAN1.dwg 5/26/2017 1:38 PM

ATTACHMENTS

SITE PLAN

PROJECT
SOUTH AUD BLOCK REDEVELOPMENT
ERIE CANAL HARBOR DEVELOPMENT CORPORATION
BUFFALO, NY

ISSUE DATE
04/30/2014

South Aud Block

Soil Boring Investigation

16-Jun-14

Completed by Fisher Associates, PE, LS, PC

Summary of Target Compound List (TCL) Volatile Organic Compounds (VOCs) Detected in Soil
South Aud Block
Buffalo, NY

TCL VOC	Part 375-6.8 (b) Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives (SCOs)	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	CP-51 Soil Cleanup Levels (SCLs)	Sample ID, Date Collected, and Depth (ft bgs)						
				B-4	B-5	B-6	B-7	B-8	B-9	B-10
				6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014
				0-16	0-16	0-8	0-8	0-4	0-4	0-8
Acetone	100,000	500,000	NS	ND	ND	ND	ND	92.3	ND	62.7
Naphthalene	NS	NS	12,000	ND	ND	ND	ND	ND	ND	ND
Total VOCs	NS	NS	NS	ND	ND	ND	ND	92	ND	63

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ftbg = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).
CP-51 Soil Cleanup Levels (SCLs) = New York State Department of Environmental Conservation (NYSDEC) CP-51 – Soil Cleanup

BOLD = Concentration exceeds NYSDEC CP-51 SCLs Table 1 - Supplemental Soil Cleanup Objectives (Restricted-Residential), Table 2 - SCLs for Gasoline Contaminated Soils, Table 3 - SCLs for Fuel oil Contaminated Soil
Shading = Concentration exceeds Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives
Italicized = Concentration exceeds Restricted Use (Track 2) Commercial Soil Cleanup Objectives

Summary of Target Compound List (TCL) Polycyclic Aromatic Hydrocarbons (PAHs) Detected in Soi
South Aud Block
Buffalo, NY

TCL SVOC	Part 375-6.8 (b) Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives (SCOs)	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	CP-51 Soil Cleanup Levels (SCLs)	Sample ID, Date Collected, and Depth (ft bgs)						
				B-4	B-5	B-6	B-7	B-8	B-9	B-10
				6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014
				0-16	0-16	0-8	0-8	0-4	0-4	0-8
Acenaphthene	100,000	500,000	20,000	ND	ND	ND	ND	ND	609	ND
Anthracene	100,000	500,000	100,000	ND	ND	ND	ND	ND	1,270	659
Benzo(a)anthracene	1,000	5,600	1,000	ND	ND	ND	ND	ND	**1,860**	**1,450**
Benzo(a)pyrene	1,000	1,000	1,000	ND	ND	ND	ND	ND	***1,240***	***1,220***
Benzo(b)fluoranthene	1,000	5,600	1,000	ND	ND	ND	ND	ND	**1,080**	**1,260**
Benzo(g,h,i)perylene	100,000	500,000	100,000	ND	ND	ND	ND	ND	512	761
Benzo(k)fluoranthene	3,900	56,000	800	ND	ND	ND	ND	ND	**927**	**808**
Chrysene	3,900	56,000	1,000	ND	ND	ND	ND	ND	**1,630**	**1,490**
Flouranthene	100,000	500,000	100,000	ND	ND	ND	ND	ND	3,510	3,250
Fluorene	100,000	500,000	30,000	ND	ND	ND	ND	ND	607	364
Indeno(1,2,3-cd)pyrene	500	5,600	500	ND	ND	ND	ND	ND	**664**	**948**
Phenanthrene	100,000	500,000	100,000	ND	ND	ND	ND	ND	3,400	2,340
Pyrene	100,000	500,000	100,000	ND	ND	ND	ND	ND	2,880	2,670
Total PAHs	NS	NS	NS	ND	ND	ND	ND	ND	20,189	17,220

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ft bgs = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).
CP-51 Soil Cleanup Levels (SCLs) = New York State Department of Environmental Conservation (NYSDEC) CP-51 – Soil Cleanup Guidance (CP-

BOLD = Concentration exceeds NYSDEC CP-51 SCLs Table 1 - Supplemental Soil Cleanup Objectives (Restricted-Residential), Table 2 - SCLs for Gasoline Contaminated Soils, Table 3 - SCLs for Fuel oil Contaminated Soil
Shading = Concentration exceeds Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives
Italicized = Concentration exceeds Restricted Use (Track 2) Commercial Soil Cleanup Objectives

Summary of Target Analyte List (TAL) Metals Detected in Soil
South Aud Block
Buffalo, NY

Target Analyte List Metal	Part 375-6.8 (b) Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives (SCOs)	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	CP-51 Soil Cleanup Levels (SCLs)	Sample ID, Date Collected, and Depth (ft bgs)						
				B-4	B-5	B-6	B-7	B-8	B-9	B-10
				6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014
				0-16	0-16	0-8	0-8	0-4	0-4	0-8
Aluminum	NS	NS	NS	3,400	3,740	7,120	12,300	8,640	7,920	9,210
Arsenic	16	16	NS	ND	ND	ND	1.85	1.79	5.28	6.56
Barium	400	400	NS	ND	12.8	30	53.5	58.2	53.4	106
Beryllium	72	590	NS	ND	ND	ND	ND	ND	ND	ND
Calcium	NS	NS	NS	136,000	85,500	1,370	91,200	3,400	34,600	50,900
Chromium (total)	180	1,500	NS	5.52	5.61	8.48	15.3	12.2	12.7	18.9
Cobalt	NS	NS	30	ND	ND	ND	ND	ND	5.58	7.27
Copper	270	270	NS	7.48	7.62	7.51	18.8	10.4	34.2	60.2
Iron	NS	NS	2,000	**6,720**	**5,990**	**4,460**	**11,200**	**11,000**	**14,900**	**20,300**
Lead	400	1,000	NS	4.98	6.17	11.9	14.8	13.6	87.6	597
Magnesium	NS	NS	NS	56,800	40,900	1,830	47,600	2,610	11,800	14,200
Manganese	2,000	10,000	NS	234	188	51.9	146	95.3	287	363
Mercury	0.81	2.8	NS	0.0302	0.135	0.0426	0.0545	ND	0.461	1.07
Nickel	310	310	NS	ND	4.93	6.44	14.4	12.9	14	19
Potassium	NS	NS	NS	1,200	1,310	908	3,190	1,080	1,220	1,780
Silver	180	1,500	NS	1.6	ND	ND	ND	ND	ND	ND
Sodium	NS	NS	NS	ND	ND	ND	ND	ND	ND	428
Vanadium	NS	NS	100	9.15	9.35	10.2	22.2	17.9	15.5	22.1
Zinc	10,000	10,000	NS	33.2	29.5	55.4	88.8	47	94.5	196

Notes:
All concentrations are in parts per million (ppm or mg/kg)
ft bgs = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).
CP-51 Soil Cleanup Levels (SCLs) = New York State Department of Environmental Conservation (NYSDEC) CP-51 – Soil Cleanup Guidance (CP-51) (October 21, 2010).

BOLD = Concentration exceeds NYSDEC CP-51 SCLs Table 1 - Supplemental Soil Cleanup Objectives (Restricted-Residential), Table 2 - SCLs for Gasoline Contaminated Soils, Table 3 - SCLs for Fuel oil Contaminated Soil
Shading = Concentration exceeds Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives
Italicized = Concentration exceeds Restricted Use (Track 2) Commercial Soil Cleanup Objectives

Summary of Polychlorinated Biphenyls (PCBs) Detected in Soil
South Aud Block
Buffalo, NY

PCBs	Part 375-6.8 (b) Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives (SCOs)	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	CP-51 Soil Cleanup Levels (SCLs)	Sample ID, Date Collected, and Depth (ft bgs)						
				B-4	B-5	B-6	B-7	B-8	B-9	B-10
				6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014	6/30/2014
				0-16	0-16	0-8	0-8	0-4	0-4	0-8
Total PCBs	1,000	1,000	NS	ND	ND	ND	ND	ND	ND	ND

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ftbg = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).
CP-51 Soil Cleanup Levels (SCLs) = New York State Department of Environmental Conservation (NYSDEC) CP-51 – Soil Cleanup Guidance (CP-51) (October 21, 2010).

BOLD = Concentration exceeds NYSDEC CP-51 SCLs Table 1 - Supplemental Soil Cleanup Objectives (Restricted-Residential), Table 2 - SCLs for Gasoline Contaminated Soils, Table 3 - SCLs for Fuel oil Contaminated Soil
Shading = Concentration exceeds Restricted Use (Track 2) Restricted-Residential Soil Cleanup Objectives
Italicized = Concentration exceeds Restricted Use (Track 2) Commercial Soil Cleanup Objectives

Fisher Associates, P.E., L.S., P.C.
Rochester • Buffalo • Syracuse NY
Erie • Pittsburgh PA
www.fisherassoc.com

JOB SOUTH AND BLOCK REDEVELOPMENT
SHEET NO. SOIL BORING TABLE OF
CALCULATED BY JD DATE 6/16/14
CHECKED BY DATE
SCALE

SOIL BORING	DEPTH
B-1	4'
B-2	10'
B-3	4'
B-4	16'
B-5	16'
B-6	8'
B-7	8'
B-8	4'
B-9	4'
B-10	8'
B-11	8'
B-12	4'

PARADIGM

Analytical Report For

Fisher Associates

For Lab Project ID

142734

Referencing

Buffalo South Aud FA#144009

Prepared

Wednesday, July 09, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

ENVIRONMENTAL BUILDING MATERIALS CERTIFICATION FORM

PROJECT NAME:

Contractor Name:

Contractor Contact: Submittal #:

Telephone Number: Re-Submittal? ☐ Yes ☐ No

NOTES FOR TABLES BELOW:

1. "Manufacturing" refers to the final assembly of components into the building product that is furnished and installed by tradesmen. For example, if the hardware comes from Dallas, TX, the lumber from Keene, NH, and the joist is assembled in Kent, WA; then the location of the final assembly is Kent, WA.
2. "Raw Materials" refers to the virgin resources from which the product's components are made, i.e. before processing or manufacturing. The extraction site for recycled material is considered to be the recycling facility.

GENERAL PRODUCT INFORMATION (Table continues below. Use line numbers to connect General Product Information with corresponding Environmental Information.)

	(for assemblies breakout individual materials into separate line items)			Adhesives, Sealants & Paints Only (See Specifications for limits)		Wood with Added Urea-formaldehyde	Rapidly Renewable <10 year Life-cycle
Line #	Product	Manufacturer	Material Cost only	VOC LIMIT (g/L) or N/A	Product VOC (g/L) or N/A	Yes / No or N/A	Yes / No or N/A
1						(select)	(select)
2						(select)	(select)
3						(select)	(select)
4						(select)	(select)
5						(select)	(select)
6						(select)	(select)
7						(select)	(select)
8						(select)	(select)

ENVIRONMENTAL INFORMATION (Table continues below. Use line numbers to connect General Product Information with corresponding Environmental Information.)

	Recycled Content		Location of Manufacturing		Origin of Raw Materials Extraction		FSC Wood		Back Up Documentation
Line #	% Post-consumer	% Post-industrial	City/State	Distance to Project Site (Mi)	City/State	Distance to Project Site (Mi)	FSC Content (FSC Pure, FSC Mixed xx%, etc) or N/A	COC # or N/A	CS – Cut Sheet LM – Letter from Manufacturer INV – Invoice *(*Required for all wood submittals with price indicated)*
1									(select)
2									(select)
3									(select)
4									(select)
5									(select)
6									(select)
7									(select)
8									(select)

Contractor Certification:

I, , a duly authorized representative of , hereby certify that the material information disclosed in this document is an accurate and complete summary of the LEED material qualifications provided to us by the manufacturer through official documentation in the form of either Cut sheets, Letters from the Manufacturer, or Manufacturer's official literature. The relevant information in these documents has been highlighted and included as supporting information for review and approval.

E-Signature of Authorized Representative: Date:

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S1 (B-12)
Lab Sample ID: 142734-01 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0711**	mg/Kg		7/8/2014 14:17

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**4460**	mg/Kg		7/7/2014 12:14
Antimony	< 6.93	mg/Kg		7/7/2014 12:14
Arsenic	**3.54**	mg/Kg		7/7/2014 12:14
Barium	**39.8**	mg/Kg		7/7/2014 12:14
Beryllium	< 0.578	mg/Kg		7/7/2014 12:14
Cadmium	< 0.578	mg/Kg		7/7/2014 12:14
Calcium	**124000**	mg/Kg		7/7/2014 12:18
Chromium	**8.28**	mg/Kg		7/7/2014 12:14
Cobalt	< 5.78	mg/Kg		7/7/2014 12:14
Copper	**17.6**	mg/Kg		7/7/2014 12:14
Iron	**9750**	mg/Kg		7/7/2014 12:14
Lead	**58.8**	mg/Kg		7/7/2014 12:14
Magnesium	**18600**	mg/Kg		7/7/2014 12:14
Manganese	**232**	mg/Kg		7/7/2014 12:14
Nickel	**8.53**	mg/Kg		7/7/2014 12:14
Potassium	**1240**	mg/Kg		7/7/2014 12:14
Selenium	< 1.16	mg/Kg		7/7/2014 12:14
Silver	**1.19**	mg/Kg		7/7/2014 12:14
Sodium	< 289	mg/Kg		7/7/2014 12:14
Thallium	< 2.89	mg/Kg		7/7/2014 12:14

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, July 09, 2014

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S1 (B-12)
Lab Sample ID: 142734-01 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**12.5**	mg/Kg		7/7/2014	12:14
Zinc	**71.1**	mg/Kg		7/7/2014	12:14

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1221	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1232	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1242	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1248	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1254	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1260	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1262	< 0.304	mg/Kg		7/2/2014	18:58
PCB-1268	< 0.304	mg/Kg		7/2/2014	18:58

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 300	ug/Kg		7/8/2014	02:06
Acenaphthylene	< 300	ug/Kg		7/8/2014	02:06
Anthracene	< 300	ug/Kg		7/8/2014	02:06
Benzo (a) anthracene	< 300	ug/Kg		7/8/2014	02:06
Benzo (a) pyrene	< 300	ug/Kg		7/8/2014	02:06
Benzo (b) fluoranthene	< 300	ug/Kg		7/8/2014	02:06
Benzo (g,h,i) perylene	< 300	ug/Kg		7/8/2014	02:06
Benzo (k) fluoranthene	< 300	ug/Kg		7/8/2014	02:06

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S1 (B-12)
Lab Sample ID: 142734-01
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 300	ug/Kg		7/8/2014	02:06
Dibenz (a,h) anthracene	< 300	ug/Kg		7/8/2014	02:06
Fluoranthene	**479**	ug/Kg		7/8/2014	02:06
Fluorene	< 300	ug/Kg		7/8/2014	02:06
Indeno (1,2,3-cd) pyrene	< 300	ug/Kg		7/8/2014	02:06
Naphthalene	< 300	ug/Kg		7/8/2014	02:06
Phenanthrene	**316**	ug/Kg		7/8/2014	02:06
Pyrene	**387**	ug/Kg		7/8/2014	02:06

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77871.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 6.22	ug/Kg		7/3/2014	20:10
1,1,2,2-Tetrachloroethane	< 6.22	ug/Kg		7/3/2014	20:10
1,1,2-Trichloroethane	< 6.22	ug/Kg		7/3/2014	20:10
1,1-Dichloroethane	< 6.22	ug/Kg		7/3/2014	20:10
1,1-Dichloroethene	< 6.22	ug/Kg		7/3/2014	20:10
1,2,3-Trichlorobenzene	< 15.5	ug/Kg		7/3/2014	20:10
1,2,4-Trichlorobenzene	< 15.5	ug/Kg		7/3/2014	20:10
1,2,4-Trimethylbenzene	< 6.22	ug/Kg		7/3/2014	20:10
1,2-Dibromo-3-Chloropropane	< 31.1	ug/Kg		7/3/2014	20:10
1,2-Dibromoethane	< 6.22	ug/Kg		7/3/2014	20:10
1,2-Dichlorobenzene	< 6.22	ug/Kg		7/3/2014	20:10
1,2-Dichloroethane	< 6.22	ug/Kg		7/3/2014	20:10
1,2-Dichloropropane	< 6.22	ug/Kg		7/3/2014	20:10
1,3,5-Trimethylbenzene	< 6.22	ug/Kg		7/3/2014	20:10
1,3-Dichlorobenzene	< 6.22	ug/Kg		7/3/2014	20:10

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S1 (B-12)
Lab Sample ID: 142734-01 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 6.22	ug/Kg	7/3/2014	20:10
1,4-dioxane	< 62.2	ug/Kg	7/3/2014	20:10
2-Butanone	< 31.1	ug/Kg	7/3/2014	20:10
2-Hexanone	< 15.5	ug/Kg	7/3/2014	20:10
4-Methyl-2-pentanone	< 15.5	ug/Kg	7/3/2014	20:10
Acetone	**63.5**	ug/Kg	7/3/2014	20:10
Benzene	< 6.22	ug/Kg	7/3/2014	20:10
Bromochloromethane	< 15.5	ug/Kg	7/3/2014	20:10
Bromodichloromethane	< 6.22	ug/Kg	7/3/2014	20:10
Bromoform	< 15.5	ug/Kg	7/3/2014	20:10
Bromomethane	< 6.22	ug/Kg	7/3/2014	20:10
Carbon disulfide	< 6.22	ug/Kg	7/3/2014	20:10
Carbon Tetrachloride	< 6.22	ug/Kg	7/3/2014	20:10
Chlorobenzene	< 6.22	ug/Kg	7/3/2014	20:10
Chloroethane	< 6.22	ug/Kg	7/3/2014	20:10
Chloroform	< 6.22	ug/Kg	7/3/2014	20:10
Chloromethane	< 6.22	ug/Kg	7/3/2014	20:10
cis-1,2-Dichloroethene	< 6.22	ug/Kg	7/3/2014	20:10
cis-1,3-Dichloropropene	< 6.22	ug/Kg	7/3/2014	20:10
Cyclohexane	< 31.1	ug/Kg	7/3/2014	20:10
Dibromochloromethane	< 6.22	ug/Kg	7/3/2014	20:10
Dichlorodifluoromethane	< 6.22	ug/Kg	7/3/2014	20:10
Ethylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
Freon 113	< 6.22	ug/Kg	7/3/2014	20:10
Isopropylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
m,p-Xylene	< 6.22	ug/Kg	7/3/2014	20:10
Methyl acetate	< 6.22	ug/Kg	7/3/2014	20:10
Methyl tert-butyl Ether	< 6.22	ug/Kg	7/3/2014	20:10

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S1 (B-12)
Lab Sample ID: 142734-01 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 6.22	ug/Kg	7/3/2014	20:10
Methylene chloride	< 15.5	ug/Kg	7/3/2014	20:10
Naphthalene	< 15.5	ug/Kg	7/3/2014	20:10
n-Butylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
n-Propylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
o-Xylene	< 6.22	ug/Kg	7/3/2014	20:10
p-Isopropyltoluene	< 6.22	ug/Kg	7/3/2014	20:10
sec-Butylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
Styrene	< 15.5	ug/Kg	7/3/2014	20:10
tert-Butylbenzene	< 6.22	ug/Kg	7/3/2014	20:10
Tetrachloroethene	< 6.22	ug/Kg	7/3/2014	20:10
Toluene	< 6.22	ug/Kg	7/3/2014	20:10
trans-1,2-Dichloroethene	< 6.22	ug/Kg	7/3/2014	20:10
trans-1,3-Dichloropropene	< 6.22	ug/Kg	7/3/2014	20:10
Trichloroethene	< 6.22	ug/Kg	7/3/2014	20:10
Trichlorofluoromethane	< 6.22	ug/Kg	7/3/2014	20:10
Vinyl chloride	< 6.22	ug/Kg	7/3/2014	20:10

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14702.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S2 (B-4)
Lab Sample ID: 142734-02
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0302**	mg/Kg		7/8/2014 14:20

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**3400**	mg/Kg		7/7/2014 12:23
Antimony	< 7.46	mg/Kg		7/7/2014 12:23
Arsenic	< 1.24	mg/Kg		7/7/2014 12:23
Barium	< 12.4	mg/Kg		7/7/2014 12:23
Beryllium	< 0.622	mg/Kg		7/7/2014 12:23
Cadmium	< 0.622	mg/Kg		7/7/2014 12:23
Calcium	**136000**	mg/Kg		7/7/2014 12:27
Chromium	**5.52**	mg/Kg		7/7/2014 12:23
Cobalt	< 6.22	mg/Kg		7/7/2014 12:23
Copper	**7.48**	mg/Kg		7/7/2014 12:23
Iron	**6720**	mg/Kg		7/7/2014 12:23
Lead	**4.98**	mg/Kg		7/3/2014 17:38
Magnesium	**56800**	mg/Kg		7/7/2014 12:23
Manganese	**234**	mg/Kg		7/7/2014 12:23
Nickel	< 4.98	mg/Kg		7/7/2014 12:23
Potassium	**1200**	mg/Kg		7/7/2014 12:23
Selenium	< 1.24	mg/Kg		7/7/2014 12:23
Silver	**1.59**	mg/Kg		7/7/2014 12:23
Sodium	< 311	mg/Kg		7/7/2014 12:23
Thallium	< 3.11	mg/Kg		7/7/2014 12:23

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S2 (B-4)
Lab Sample ID: 142734-02
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Vanadium	**9.15**	mg/Kg		7/7/2014	12:23
Zinc	**33.2**	mg/Kg		7/7/2014	12:23

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1221	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1232	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1242	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1248	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1254	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1260	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1262	< 0.348	mg/Kg		7/2/2014	19:21
PCB-1268	< 0.348	mg/Kg		7/2/2014	19:21

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 325	ug/Kg		7/8/2014	02:37
Acenaphthylene	< 325	ug/Kg		7/8/2014	02:37
Anthracene	< 325	ug/Kg		7/8/2014	02:37
Benzo (a) anthracene	< 325	ug/Kg		7/8/2014	02:37
Benzo (a) pyrene	< 325	ug/Kg		7/8/2014	02:37
Benzo (b) fluoranthene	< 325	ug/Kg		7/8/2014	02:37
Benzo (g,h,i) perylene	< 325	ug/Kg		7/8/2014	02:37
Benzo (k) fluoranthene	< 325	ug/Kg		7/8/2014	02:37

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PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S2 (B-4)
Lab Sample ID: 142734-02
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 325	ug/Kg		7/8/2014	02:37
Dibenz (a,h) anthracene	< 325	ug/Kg		7/8/2014	02:37
Fluoranthene	< 325	ug/Kg		7/8/2014	02:37
Fluorene	< 325	ug/Kg		7/8/2014	02:37
Indeno (1,2,3-cd) pyrene	< 325	ug/Kg		7/8/2014	02:37
Naphthalene	< 325	ug/Kg		7/8/2014	02:37
Phenanthrene	< 325	ug/Kg		7/8/2014	02:37
Pyrene	< 325	ug/Kg		7/8/2014	02:37

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77872.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 6.15	ug/Kg		7/3/2014	20:34
1,1,2,2-Tetrachloroethane	< 6.15	ug/Kg		7/3/2014	20:34
1,1,2-Trichloroethane	< 6.15	ug/Kg		7/3/2014	20:34
1,1-Dichloroethane	< 6.15	ug/Kg		7/3/2014	20:34
1,1-Dichloroethene	< 6.15	ug/Kg		7/3/2014	20:34
1,2,3-Trichlorobenzene	< 15.4	ug/Kg		7/3/2014	20:34
1,2,4-Trichlorobenzene	< 15.4	ug/Kg		7/3/2014	20:34
1,2,4-Trimethylbenzene	< 6.15	ug/Kg		7/3/2014	20:34
1,2-Dibromo-3-Chloropropane	< 30.7	ug/Kg		7/3/2014	20:34
1,2-Dibromoethane	< 6.15	ug/Kg		7/3/2014	20:34
1,2-Dichlorobenzene	< 6.15	ug/Kg	M	7/3/2014	20:34
1,2-Dichloroethane	< 6.15	ug/Kg		7/3/2014	20:34
1,2-Dichloropropane	< 6.15	ug/Kg		7/3/2014	20:34
1,3,5-Trimethylbenzene	< 6.15	ug/Kg		7/3/2014	20:34
1,3-Dichlorobenzene	< 6.15	ug/Kg	M	7/3/2014	20:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S2 (B-4)
Lab Sample ID: 142734-02 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 6.15	ug/Kg	M	7/3/2014	20:34
1,4-dioxane	< 61.5	ug/Kg		7/3/2014	20:34
2-Butanone	< 30.7	ug/Kg		7/3/2014	20:34
2-Hexanone	< 15.4	ug/Kg		7/3/2014	20:34
4-Methyl-2-pentanone	< 15.4	ug/Kg		7/3/2014	20:34
Acetone	< 30.7	ug/Kg		7/3/2014	20:34
Benzene	< 6.15	ug/Kg		7/3/2014	20:34
Bromochloromethane	< 15.4	ug/Kg		7/3/2014	20:34
Bromodichloromethane	< 6.15	ug/Kg		7/3/2014	20:34
Bromoform	< 15.4	ug/Kg		7/3/2014	20:34
Bromomethane	< 6.15	ug/Kg		7/3/2014	20:34
Carbon disulfide	< 6.15	ug/Kg		7/3/2014	20:34
Carbon Tetrachloride	< 6.15	ug/Kg		7/3/2014	20:34
Chlorobenzene	< 6.15	ug/Kg	M	7/3/2014	20:34
Chloroethane	< 6.15	ug/Kg		7/3/2014	20:34
Chloroform	< 6.15	ug/Kg		7/3/2014	20:34
Chloromethane	< 6.15	ug/Kg		7/3/2014	20:34
cis-1,2-Dichloroethene	< 6.15	ug/Kg		7/3/2014	20:34
cis-1,3-Dichloropropene	< 6.15	ug/Kg		7/3/2014	20:34
Cyclohexane	< 30.7	ug/Kg		7/3/2014	20:34
Dibromochloromethane	< 6.15	ug/Kg		7/3/2014	20:34
Dichlorodifluoromethane	< 6.15	ug/Kg		7/3/2014	20:34
Ethylbenzene	< 6.15	ug/Kg		7/3/2014	20:34
Freon 113	< 6.15	ug/Kg		7/3/2014	20:34
Isopropylbenzene	< 6.15	ug/Kg		7/3/2014	20:34
m,p-Xylene	< 6.15	ug/Kg		7/3/2014	20:34
Methyl acetate	< 6.15	ug/Kg		7/3/2014	20:34
Methyl tert-butyl Ether	< 6.15	ug/Kg		7/3/2014	20:34

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S2 (B-4)
Lab Sample ID: 142734-02 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 6.15	ug/Kg	7/3/2014	20:34
Methylene chloride	< 15.4	ug/Kg	7/3/2014	20:34
Naphthalene	< 15.4	ug/Kg	7/3/2014	20:34
n-Butylbenzene	< 6.15	ug/Kg	7/3/2014	20:34
n-Propylbenzene	< 6.15	ug/Kg	7/3/2014	20:34
o-Xylene	< 6.15	ug/Kg	7/3/2014	20:34
p-Isopropyltoluene	< 6.15	ug/Kg	7/3/2014	20:34
sec-Butylbenzene	< 6.15	ug/Kg	7/3/2014	20:34
Styrene	< 15.4	ug/Kg	7/3/2014	20:34
tert-Butylbenzene	< 6.15	ug/Kg	7/3/2014	20:34
Tetrachloroethene	< 6.15	ug/Kg	7/3/2014	20:34
Toluene	< 6.15	ug/Kg	7/3/2014	20:34
trans-1,2-Dichloroethene	< 6.15	ug/Kg	7/3/2014	20:34
trans-1,3-Dichloropropene	< 6.15	ug/Kg	7/3/2014	20:34
Trichloroethene	< 6.15	ug/Kg	7/3/2014	20:34
Trichlorofluoromethane	< 6.15	ug/Kg	7/3/2014	20:34
Vinyl chloride	< 6.15	ug/Kg	7/3/2014	20:34

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14703.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S3 (B-5)
Lab Sample ID: 142734-03 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.135**	mg/Kg		7/8/2014 14:23

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**3740**	mg/Kg		7/7/2014 12:40
Antimony	< 7.21	mg/Kg		7/7/2014 12:40
Arsenic	< 1.20	mg/Kg		7/7/2014 12:40
Barium	**12.8**	mg/Kg		7/7/2014 12:40
Beryllium	< 0.601	mg/Kg		7/7/2014 12:40
Cadmium	< 0.601	mg/Kg		7/7/2014 12:40
Calcium	**85500**	mg/Kg		7/7/2014 12:44
Chromium	**5.61**	mg/Kg		7/7/2014 12:40
Cobalt	< 6.01	mg/Kg		7/7/2014 12:40
Copper	**7.62**	mg/Kg		7/7/2014 12:40
Iron	**5990**	mg/Kg		7/7/2014 12:40
Lead	**6.17**	mg/Kg		7/7/2014 12:40
Magnesium	**40900**	mg/Kg		7/7/2014 12:40
Manganese	**188**	mg/Kg		7/7/2014 12:40
Nickel	**4.93**	mg/Kg		7/7/2014 12:40
Potassium	**1310**	mg/Kg		7/7/2014 12:40
Selenium	< 1.20	mg/Kg		7/7/2014 12:40
Silver	< 1.20	mg/Kg		7/7/2014 12:40
Sodium	< 300	mg/Kg		7/7/2014 12:40
Thallium	< 3.00	mg/Kg		7/7/2014 12:40

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PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S3 (B-5)
Lab Sample ID: 142734-03
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Vanadium	**9.35**	mg/Kg		7/7/2014	12:40
Zinc	**29.5**	mg/Kg		7/7/2014	12:40

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1221	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1232	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1242	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1248	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1254	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1260	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1262	< 0.324	mg/Kg		7/2/2014	19:44
PCB-1268	< 0.324	mg/Kg		7/2/2014	19:44

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 323	ug/Kg		7/8/2014	03:08
Acenaphthylene	< 323	ug/Kg		7/8/2014	03:08
Anthracene	< 323	ug/Kg		7/8/2014	03:08
Benzo (a) anthracene	< 323	ug/Kg		7/8/2014	03:08
Benzo (a) pyrene	< 323	ug/Kg		7/8/2014	03:08
Benzo (b) fluoranthene	< 323	ug/Kg		7/8/2014	03:08
Benzo (g,h,i) perylene	< 323	ug/Kg		7/8/2014	03:08
Benzo (k) fluoranthene	< 323	ug/Kg		7/8/2014	03:08

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S3 (B-5)
Lab Sample ID: 142734-03
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 323	ug/Kg	7/8/2014	03:08
Dibenz (a,h) anthracene	< 323	ug/Kg	7/8/2014	03:08
Fluoranthene	< 323	ug/Kg	7/8/2014	03:08
Fluorene	< 323	ug/Kg	7/8/2014	03:08
Indeno (1,2,3-cd) pyrene	< 323	ug/Kg	7/8/2014	03:08
Naphthalene	< 323	ug/Kg	7/8/2014	03:08
Phenanthrene	< 323	ug/Kg	7/8/2014	03:08
Pyrene	< 323	ug/Kg	7/8/2014	03:08

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77873.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 9.82	ug/Kg		7/3/2014	21:44
1,1,2,2-Tetrachloroethane	< 9.82	ug/Kg		7/3/2014	21:44
1,1,2-Trichloroethane	< 9.82	ug/Kg		7/3/2014	21:44
1,1-Dichloroethane	< 9.82	ug/Kg		7/3/2014	21:44
1,1-Dichloroethene	< 9.82	ug/Kg		7/3/2014	21:44
1,2,3-Trichlorobenzene	< 24.5	ug/Kg		7/3/2014	21:44
1,2,4-Trichlorobenzene	< 24.5	ug/Kg		7/3/2014	21:44
1,2,4-Trimethylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
1,2-Dibromo-3-Chloropropane	< 49.1	ug/Kg		7/3/2014	21:44
1,2-Dibromoethane	< 9.82	ug/Kg		7/3/2014	21:44
1,2-Dichlorobenzene	< 9.82	ug/Kg		7/3/2014	21:44
1,2-Dichloroethane	< 9.82	ug/Kg		7/3/2014	21:44
1,2-Dichloropropane	< 9.82	ug/Kg		7/3/2014	21:44
1,3,5-Trimethylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
1,3-Dichlorobenzene	< 9.82	ug/Kg		7/3/2014	21:44

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Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S3 (B-5)
Lab Sample ID: 142734-03 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 9.82	ug/Kg	7/3/2014	21:44
1,4-dioxane	< 98.2	ug/Kg	7/3/2014	21:44
2-Butanone	< 49.1	ug/Kg	7/3/2014	21:44
2-Hexanone	< 24.5	ug/Kg	7/3/2014	21:44
4-Methyl-2-pentanone	< 24.5	ug/Kg	7/3/2014	21:44
Acetone	< 49.1	ug/Kg	7/3/2014	21:44
Benzene	< 9.82	ug/Kg	7/3/2014	21:44
Bromochloromethane	< 24.5	ug/Kg	7/3/2014	21:44
Bromodichloromethane	< 9.82	ug/Kg	7/3/2014	21:44
Bromoform	< 24.5	ug/Kg	7/3/2014	21:44
Bromomethane	< 9.82	ug/Kg	7/3/2014	21:44
Carbon disulfide	< 9.82	ug/Kg	7/3/2014	21:44
Carbon Tetrachloride	< 9.82	ug/Kg	7/3/2014	21:44
Chlorobenzene	< 9.82	ug/Kg	7/3/2014	21:44
Chloroethane	< 9.82	ug/Kg	7/3/2014	21:44
Chloroform	< 9.82	ug/Kg	7/3/2014	21:44
Chloromethane	< 9.82	ug/Kg	7/3/2014	21:44
cis-1,2-Dichloroethene	< 9.82	ug/Kg	7/3/2014	21:44
cis-1,3-Dichloropropene	< 9.82	ug/Kg	7/3/2014	21:44
Cyclohexane	< 49.1	ug/Kg	7/3/2014	21:44
Dibromochloromethane	< 9.82	ug/Kg	7/3/2014	21:44
Dichlorodifluoromethane	< 9.82	ug/Kg	7/3/2014	21:44
Ethylbenzene	< 9.82	ug/Kg	7/3/2014	21:44
Freon 113	< 9.82	ug/Kg	7/3/2014	21:44
Isopropylbenzene	< 9.82	ug/Kg	7/3/2014	21:44
m,p-Xylene	< 9.82	ug/Kg	7/3/2014	21:44
Methyl acetate	< 9.82	ug/Kg	7/3/2014	21:44
Methyl tert-butyl Ether	< 9.82	ug/Kg	7/3/2014	21:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S3 (B-5)
Lab Sample ID: 142734-03 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 9.82	ug/Kg		7/3/2014	21:44
Methylene chloride	< 24.5	ug/Kg		7/3/2014	21:44
Naphthalene	< 24.5	ug/Kg		7/3/2014	21:44
n-Butylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
n-Propylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
o-Xylene	< 9.82	ug/Kg		7/3/2014	21:44
p-Isopropyltoluene	< 9.82	ug/Kg		7/3/2014	21:44
sec-Butylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
Styrene	< 24.5	ug/Kg		7/3/2014	21:44
tert-Butylbenzene	< 9.82	ug/Kg		7/3/2014	21:44
Tetrachloroethene	< 9.82	ug/Kg		7/3/2014	21:44
Toluene	< 9.82	ug/Kg		7/3/2014	21:44
trans-1,2-Dichloroethene	< 9.82	ug/Kg		7/3/2014	21:44
trans-1,3-Dichloropropene	< 9.82	ug/Kg		7/3/2014	21:44
Trichloroethene	< 9.82	ug/Kg		7/3/2014	21:44
Trichlorofluoromethane	< 9.82	ug/Kg		7/3/2014	21:44
Vinyl chloride	< 9.82	ug/Kg		7/3/2014	21:44

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14706.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, July 09, 2014

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S4 (B-7)
Lab Sample ID: 142734-04 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0545**	mg/Kg		7/8/2014 14:27

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**12300**	mg/Kg		7/7/2014 12:48
Antimony	< 7.24	mg/Kg		7/7/2014 12:48
Arsenic	**1.85**	mg/Kg		7/7/2014 12:48
Barium	**53.5**	mg/Kg		7/7/2014 12:48
Beryllium	< 0.603	mg/Kg		7/7/2014 12:48
Cadmium	< 0.603	mg/Kg		7/7/2014 12:48
Calcium	**91200**	mg/Kg		7/7/2014 12:53
Chromium	**15.3**	mg/Kg		7/7/2014 12:48
Cobalt	< 6.03	mg/Kg		7/7/2014 12:48
Copper	**18.8**	mg/Kg		7/7/2014 12:48
Iron	**11200**	mg/Kg		7/7/2014 12:48
Lead	**14.8**	mg/Kg		7/7/2014 12:48
Magnesium	**47600**	mg/Kg		7/7/2014 12:48
Manganese	**146**	mg/Kg		7/7/2014 12:48
Nickel	**14.4**	mg/Kg		7/7/2014 12:48
Potassium	**3190**	mg/Kg		7/7/2014 12:48
Selenium	< 1.21	mg/Kg		7/7/2014 12:48
Silver	< 1.21	mg/Kg		7/7/2014 12:48
Sodium	< 302	mg/Kg		7/7/2014 12:48
Thallium	< 3.02	mg/Kg		7/7/2014 12:48

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S4 (B-7)
Lab Sample ID: 142734-04 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**22.2**	mg/Kg		7/7/2014	12:48
Zinc	**88.8**	mg/Kg		7/7/2014	12:48

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1221	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1232	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1242	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1248	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1254	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1260	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1262	< 0.371	mg/Kg		7/2/2014	20:07
PCB-1268	< 0.371	mg/Kg		7/2/2014	20:07

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 344	ug/Kg		7/8/2014	03:39
Acenaphthylene	< 344	ug/Kg		7/8/2014	03:39
Anthracene	< 344	ug/Kg		7/8/2014	03:39
Benzo (a) anthracene	< 344	ug/Kg		7/8/2014	03:39
Benzo (a) pyrene	< 344	ug/Kg		7/8/2014	03:39
Benzo (b) fluoranthene	< 344	ug/Kg		7/8/2014	03:39
Benzo (g,h,i) perylene	< 344	ug/Kg		7/8/2014	03:39
Benzo (k) fluoranthene	< 344	ug/Kg		7/8/2014	03:39

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Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S4 (B-7)
Lab Sample ID: 142734-04
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 344	ug/Kg		7/8/2014	03:39
Dibenz (a,h) anthracene	< 344	ug/Kg		7/8/2014	03:39
Fluoranthene	< 344	ug/Kg		7/8/2014	03:39
Fluorene	< 344	ug/Kg		7/8/2014	03:39
Indeno (1,2,3-cd) pyrene	< 344	ug/Kg		7/8/2014	03:39
Naphthalene	< 344	ug/Kg		7/8/2014	03:39
Phenanthrene	< 344	ug/Kg		7/8/2014	03:39
Pyrene	< 344	ug/Kg		7/8/2014	03:39

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77874.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.15	ug/Kg		7/3/2014	22:07
1,1,2,2-Tetrachloroethane	< 7.15	ug/Kg		7/3/2014	22:07
1,1,2-Trichloroethane	< 7.15	ug/Kg		7/3/2014	22:07
1,1-Dichloroethane	< 7.15	ug/Kg		7/3/2014	22:07
1,1-Dichloroethene	< 7.15	ug/Kg		7/3/2014	22:07
1,2,3-Trichlorobenzene	< 17.9	ug/Kg		7/3/2014	22:07
1,2,4-Trichlorobenzene	< 17.9	ug/Kg		7/3/2014	22:07
1,2,4-Trimethylbenzene	< 7.15	ug/Kg		7/3/2014	22:07
1,2-Dibromo-3-Chloropropane	< 35.8	ug/Kg		7/3/2014	22:07
1,2-Dibromoethane	< 7.15	ug/Kg		7/3/2014	22:07
1,2-Dichlorobenzene	< 7.15	ug/Kg		7/3/2014	22:07
1,2-Dichloroethane	< 7.15	ug/Kg		7/3/2014	22:07
1,2-Dichloropropane	< 7.15	ug/Kg		7/3/2014	22:07
1,3,5-Trimethylbenzene	< 7.15	ug/Kg		7/3/2014	22:07
1,3-Dichlorobenzene	< 7.15	ug/Kg		7/3/2014	22:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S4 (B-7)
Lab Sample ID: 142734-04
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

1,4-Dichlorobenzene	< 7.15	ug/Kg	7/3/2014	22:07
1,4-dioxane	< 71.5	ug/Kg	7/3/2014	22:07
2-Butanone	< 35.8	ug/Kg	7/3/2014	22:07
2-Hexanone	< 17.9	ug/Kg	7/3/2014	22:07
4-Methyl-2-pentanone	< 17.9	ug/Kg	7/3/2014	22:07
Acetone	< 35.8	ug/Kg	7/3/2014	22:07
Benzene	< 7.15	ug/Kg	7/3/2014	22:07
Bromochloromethane	< 17.9	ug/Kg	7/3/2014	22:07
Bromodichloromethane	< 7.15	ug/Kg	7/3/2014	22:07
Bromoform	< 17.9	ug/Kg	7/3/2014	22:07
Bromomethane	< 7.15	ug/Kg	7/3/2014	22:07
Carbon disulfide	< 7.15	ug/Kg	7/3/2014	22:07
Carbon Tetrachloride	< 7.15	ug/Kg	7/3/2014	22:07
Chlorobenzene	< 7.15	ug/Kg	7/3/2014	22:07
Chloroethane	< 7.15	ug/Kg	7/3/2014	22:07
Chloroform	< 7.15	ug/Kg	7/3/2014	22:07
Chloromethane	< 7.15	ug/Kg	7/3/2014	22:07
cis-1,2-Dichloroethene	< 7.15	ug/Kg	7/3/2014	22:07
cis-1,3-Dichloropropene	< 7.15	ug/Kg	7/3/2014	22:07
Cyclohexane	< 35.8	ug/Kg	7/3/2014	22:07
Dibromochloromethane	< 7.15	ug/Kg	7/3/2014	22:07
Dichlorodifluoromethane	< 7.15	ug/Kg	7/3/2014	22:07
Ethylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
Freon 113	< 7.15	ug/Kg	7/3/2014	22:07
Isopropylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
m,p-Xylene	< 7.15	ug/Kg	7/3/2014	22:07
Methyl acetate	< 7.15	ug/Kg	7/3/2014	22:07
Methyl tert-butyl Ether	< 7.15	ug/Kg	7/3/2014	22:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S4 (B-7)
Lab Sample ID: 142734-04 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 7.15	ug/Kg	7/3/2014	22:07
Methylene chloride	< 17.9	ug/Kg	7/3/2014	22:07
Naphthalene	< 17.9	ug/Kg	7/3/2014	22:07
n-Butylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
n-Propylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
o-Xylene	< 7.15	ug/Kg	7/3/2014	22:07
p-Isopropyltoluene	< 7.15	ug/Kg	7/3/2014	22:07
sec-Butylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
Styrene	< 17.9	ug/Kg	7/3/2014	22:07
tert-Butylbenzene	< 7.15	ug/Kg	7/3/2014	22:07
Tetrachloroethene	< 7.15	ug/Kg	7/3/2014	22:07
Toluene	< 7.15	ug/Kg	7/3/2014	22:07
trans-1,2-Dichloroethene	< 7.15	ug/Kg	7/3/2014	22:07
trans-1,3-Dichloropropene	< 7.15	ug/Kg	7/3/2014	22:07
Trichloroethene	< 7.15	ug/Kg	7/3/2014	22:07
Trichlorofluoromethane	< 7.15	ug/Kg	7/3/2014	22:07
Vinyl chloride	< 7.15	ug/Kg	7/3/2014	22:07

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14707.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S5 (B-8)
Lab Sample ID: 142734-05
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.0208	mg/Kg		7/8/2014 14:30

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**8640**	mg/Kg		7/7/2014 12:57
Antimony	< 7.18	mg/Kg		7/7/2014 12:57
Arsenic	**1.79**	mg/Kg		7/7/2014 12:57
Barium	**58.2**	mg/Kg		7/7/2014 12:57
Beryllium	< 0.598	mg/Kg		7/7/2014 12:57
Cadmium	< 0.598	mg/Kg		7/7/2014 12:57
Calcium	**3400**	mg/Kg		7/7/2014 12:57
Chromium	**12.2**	mg/Kg		7/7/2014 12:57
Cobalt	< 5.98	mg/Kg		7/7/2014 12:57
Copper	**10.4**	mg/Kg		7/7/2014 12:57
Iron	**11000**	mg/Kg		7/7/2014 12:57
Lead	**13.6**	mg/Kg		7/7/2014 12:57
Magnesium	**2610**	mg/Kg		7/7/2014 12:57
Manganese	**95.3**	mg/Kg		7/7/2014 12:57
Nickel	**12.9**	mg/Kg		7/7/2014 12:57
Potassium	**1080**	mg/Kg		7/7/2014 12:57
Selenium	< 1.20	mg/Kg		7/7/2014 12:57
Silver	< 1.20	mg/Kg		7/7/2014 12:57
Sodium	< 299	mg/Kg		7/7/2014 12:57
Thallium	< 2.99	mg/Kg		7/7/2014 12:57

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Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S5 (B-8)
Lab Sample ID: 142734-05 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**17.9**	mg/Kg		7/7/2014	12:57
Zinc	**47.0**	mg/Kg		7/7/2014	12:57

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1221	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1232	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1242	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1248	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1254	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1260	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1262	< 0.381	mg/Kg		7/2/2014	20:30
PCB-1268	< 0.381	mg/Kg		7/2/2014	20:30

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 347	ug/Kg		7/8/2014	04:11
Acenaphthylene	< 347	ug/Kg		7/8/2014	04:11
Anthracene	< 347	ug/Kg		7/8/2014	04:11
Benzo (a) anthracene	< 347	ug/Kg		7/8/2014	04:11
Benzo (a) pyrene	< 347	ug/Kg		7/8/2014	04:11
Benzo (b) fluoranthene	< 347	ug/Kg		7/8/2014	04:11
Benzo (g,h,i) perylene	< 347	ug/Kg		7/8/2014	04:11
Benzo (k) fluoranthene	< 347	ug/Kg		7/8/2014	04:11

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S5 (B-8)
Lab Sample ID: 142734-05 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Chrysene	< 347	ug/Kg	7/8/2014	04:11
Dibenz (a,h) anthracene	< 347	ug/Kg	7/8/2014	04:11
Fluoranthene	< 347	ug/Kg	7/8/2014	04:11
Fluorene	< 347	ug/Kg	7/8/2014	04:11
Indeno (1,2,3-cd) pyrene	< 347	ug/Kg	7/8/2014	04:11
Naphthalene	< 347	ug/Kg	7/8/2014	04:11
Phenanthrene	< 347	ug/Kg	7/8/2014	04:11
Pyrene	< 347	ug/Kg	7/8/2014	04:11

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77875.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 9.87	ug/Kg		7/3/2014	22:30
1,1,2,2-Tetrachloroethane	< 9.87	ug/Kg		7/3/2014	22:30
1,1,2-Trichloroethane	< 9.87	ug/Kg		7/3/2014	22:30
1,1-Dichloroethane	< 9.87	ug/Kg		7/3/2014	22:30
1,1-Dichloroethene	< 9.87	ug/Kg		7/3/2014	22:30
1,2,3-Trichlorobenzene	< 24.7	ug/Kg		7/3/2014	22:30
1,2,4-Trichlorobenzene	< 24.7	ug/Kg		7/3/2014	22:30
1,2,4-Trimethylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
1,2-Dibromo-3-Chloropropane	< 49.3	ug/Kg		7/3/2014	22:30
1,2-Dibromoethane	< 9.87	ug/Kg		7/3/2014	22:30
1,2-Dichlorobenzene	< 9.87	ug/Kg		7/3/2014	22:30
1,2-Dichloroethane	< 9.87	ug/Kg		7/3/2014	22:30
1,2-Dichloropropane	< 9.87	ug/Kg		7/3/2014	22:30
1,3,5-Trimethylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
1,3-Dichlorobenzene	< 9.87	ug/Kg		7/3/2014	22:30

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S5 (B-8)
Lab Sample ID: 142734-05 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 9.87	ug/Kg	7/3/2014	22:30
1,4-dioxane	< 98.7	ug/Kg	7/3/2014	22:30
2-Butanone	< 49.3	ug/Kg	7/3/2014	22:30
2-Hexanone	< 24.7	ug/Kg	7/3/2014	22:30
4-Methyl-2-pentanone	< 24.7	ug/Kg	7/3/2014	22:30
Acetone	**92.3**	ug/Kg	7/3/2014	22:30
Benzene	< 9.87	ug/Kg	7/3/2014	22:30
Bromochloromethane	< 24.7	ug/Kg	7/3/2014	22:30
Bromodichloromethane	< 9.87	ug/Kg	7/3/2014	22:30
Bromoform	< 24.7	ug/Kg	7/3/2014	22:30
Bromomethane	< 9.87	ug/Kg	7/3/2014	22:30
Carbon disulfide	< 9.87	ug/Kg	7/3/2014	22:30
Carbon Tetrachloride	< 9.87	ug/Kg	7/3/2014	22:30
Chlorobenzene	< 9.87	ug/Kg	7/3/2014	22:30
Chloroethane	< 9.87	ug/Kg	7/3/2014	22:30
Chloroform	< 9.87	ug/Kg	7/3/2014	22:30
Chloromethane	< 9.87	ug/Kg	7/3/2014	22:30
cis-1,2-Dichloroethene	< 9.87	ug/Kg	7/3/2014	22:30
cis-1,3-Dichloropropene	< 9.87	ug/Kg	7/3/2014	22:30
Cyclohexane	< 49.3	ug/Kg	7/3/2014	22:30
Dibromochloromethane	< 9.87	ug/Kg	7/3/2014	22:30
Dichlorodifluoromethane	< 9.87	ug/Kg	7/3/2014	22:30
Ethylbenzene	< 9.87	ug/Kg	7/3/2014	22:30
Freon 113	< 9.87	ug/Kg	7/3/2014	22:30
Isopropylbenzene	< 9.87	ug/Kg	7/3/2014	22:30
m,p-Xylene	< 9.87	ug/Kg	7/3/2014	22:30
Methyl acetate	< 9.87	ug/Kg	7/3/2014	22:30
Methyl tert-butyl Ether	< 9.87	ug/Kg	7/3/2014	22:30

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S5 (B-8)
Lab Sample ID: 142734-05 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 9.87	ug/Kg		7/3/2014	22:30
Methylene chloride	< 24.7	ug/Kg		7/3/2014	22:30
Naphthalene	< 24.7	ug/Kg		7/3/2014	22:30
n-Butylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
n-Propylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
o-Xylene	< 9.87	ug/Kg		7/3/2014	22:30
p-Isopropyltoluene	< 9.87	ug/Kg		7/3/2014	22:30
sec-Butylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
Styrene	< 24.7	ug/Kg		7/3/2014	22:30
tert-Butylbenzene	< 9.87	ug/Kg		7/3/2014	22:30
Tetrachloroethene	< 9.87	ug/Kg		7/3/2014	22:30
Toluene	< 9.87	ug/Kg		7/3/2014	22:30
trans-1,2-Dichloroethene	< 9.87	ug/Kg		7/3/2014	22:30
trans-1,3-Dichloropropene	< 9.87	ug/Kg		7/3/2014	22:30
Trichloroethene	< 9.87	ug/Kg		7/3/2014	22:30
Trichlorofluoromethane	< 9.87	ug/Kg		7/3/2014	22:30
Vinyl chloride	< 9.87	ug/Kg		7/3/2014	22:30

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14708.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S6 (B-6)
Lab Sample ID: 142734-06 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0426**	mg/Kg		7/8/2014 14:41

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**7120**	mg/Kg		7/7/2014 13:01
Antimony	< 7.34	mg/Kg		7/7/2014 13:01
Arsenic	< 1.22	mg/Kg		7/7/2014 13:01
Barium	**30.0**	mg/Kg		7/7/2014 13:01
Beryllium	< 0.612	mg/Kg		7/7/2014 13:01
Cadmium	< 0.612	mg/Kg		7/7/2014 13:01
Calcium	**1370**	mg/Kg		7/7/2014 13:01
Chromium	**8.48**	mg/Kg		7/7/2014 13:01
Cobalt	< 6.12	mg/Kg		7/7/2014 13:01
Copper	**7.51**	mg/Kg		7/7/2014 13:01
Iron	**4460**	mg/Kg		7/7/2014 13:01
Lead	**11.9**	mg/Kg		7/7/2014 13:01
Magnesium	**1830**	mg/Kg		7/7/2014 13:01
Manganese	**51.9**	mg/Kg		7/7/2014 13:01
Nickel	**6.44**	mg/Kg		7/7/2014 13:01
Potassium	**908**	mg/Kg		7/7/2014 13:01
Selenium	< 1.22	mg/Kg		7/7/2014 13:01
Silver	< 1.22	mg/Kg		7/7/2014 13:01
Sodium	< 306	mg/Kg		7/7/2014 13:01
Thallium	< 3.06	mg/Kg		7/7/2014 13:01

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S6 (B-6)
Lab Sample ID: 142734-06 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**10.2**	mg/Kg		7/7/2014	13:01
Zinc	**55.4**	mg/Kg		7/7/2014	13:01

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1221	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1232	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1242	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1248	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1254	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1260	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1262	< 0.362	mg/Kg		7/2/2014	20:53
PCB-1268	< 0.362	mg/Kg		7/2/2014	20:53

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 336	ug/Kg		7/8/2014	04:42
Acenaphthylene	< 336	ug/Kg		7/8/2014	04:42
Anthracene	< 336	ug/Kg		7/8/2014	04:42
Benzo (a) anthracene	< 336	ug/Kg		7/8/2014	04:42
Benzo (a) pyrene	< 336	ug/Kg		7/8/2014	04:42
Benzo (b) fluoranthene	< 336	ug/Kg		7/8/2014	04:42
Benzo (g,h,i) perylene	< 336	ug/Kg		7/8/2014	04:42
Benzo (k) fluoranthene	< 336	ug/Kg		7/8/2014	04:42

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Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S6 (B-6)
Lab Sample ID: 142734-06
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 336	ug/Kg	7/8/2014	04:42
Dibenz (a,h) anthracene	< 336	ug/Kg	7/8/2014	04:42
Fluoranthene	< 336	ug/Kg	7/8/2014	04:42
Fluorene	< 336	ug/Kg	7/8/2014	04:42
Indeno (1,2,3-cd) pyrene	< 336	ug/Kg	7/8/2014	04:42
Naphthalene	< 336	ug/Kg	7/8/2014	04:42
Phenanthrene	< 336	ug/Kg	7/8/2014	04:42
Pyrene	< 336	ug/Kg	7/8/2014	04:42

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77876.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.70	ug/Kg		7/3/2014	22:54
1,1,2,2-Tetrachloroethane	< 8.70	ug/Kg		7/3/2014	22:54
1,1,2-Trichloroethane	< 8.70	ug/Kg		7/3/2014	22:54
1,1-Dichloroethane	< 8.70	ug/Kg		7/3/2014	22:54
1,1-Dichloroethene	< 8.70	ug/Kg		7/3/2014	22:54
1,2,3-Trichlorobenzene	< 21.8	ug/Kg		7/3/2014	22:54
1,2,4-Trichlorobenzene	< 21.8	ug/Kg		7/3/2014	22:54
1,2,4-Trimethylbenzene	< 8.70	ug/Kg		7/3/2014	22:54
1,2-Dibromo-3-Chloropropane	< 43.5	ug/Kg		7/3/2014	22:54
1,2-Dibromoethane	< 8.70	ug/Kg		7/3/2014	22:54
1,2-Dichlorobenzene	< 8.70	ug/Kg		7/3/2014	22:54
1,2-Dichloroethane	< 8.70	ug/Kg		7/3/2014	22:54
1,2-Dichloropropane	< 8.70	ug/Kg		7/3/2014	22:54
1,3,5-Trimethylbenzene	< 8.70	ug/Kg		7/3/2014	22:54
1,3-Dichlorobenzene	< 8.70	ug/Kg		7/3/2014	22:54

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S6 (B-6)
Lab Sample ID: 142734-06 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 8.70	ug/Kg	7/3/2014	22:54
1,4-dioxane	< 87.0	ug/Kg	7/3/2014	22:54
2-Butanone	< 43.5	ug/Kg	7/3/2014	22:54
2-Hexanone	< 21.8	ug/Kg	7/3/2014	22:54
4-Methyl-2-pentanone	< 21.8	ug/Kg	7/3/2014	22:54
Acetone	< 43.5	ug/Kg	7/3/2014	22:54
Benzene	< 8.70	ug/Kg	7/3/2014	22:54
Bromochloromethane	< 21.8	ug/Kg	7/3/2014	22:54
Bromodichloromethane	< 8.70	ug/Kg	7/3/2014	22:54
Bromoform	< 21.8	ug/Kg	7/3/2014	22:54
Bromomethane	< 8.70	ug/Kg	7/3/2014	22:54
Carbon disulfide	< 8.70	ug/Kg	7/3/2014	22:54
Carbon Tetrachloride	< 8.70	ug/Kg	7/3/2014	22:54
Chlorobenzene	< 8.70	ug/Kg	7/3/2014	22:54
Chloroethane	< 8.70	ug/Kg	7/3/2014	22:54
Chloroform	< 8.70	ug/Kg	7/3/2014	22:54
Chloromethane	< 8.70	ug/Kg	7/3/2014	22:54
cis-1,2-Dichloroethene	< 8.70	ug/Kg	7/3/2014	22:54
cis-1,3-Dichloropropene	< 8.70	ug/Kg	7/3/2014	22:54
Cyclohexane	< 43.5	ug/Kg	7/3/2014	22:54
Dibromochloromethane	< 8.70	ug/Kg	7/3/2014	22:54
Dichlorodifluoromethane	< 8.70	ug/Kg	7/3/2014	22:54
Ethylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
Freon 113	< 8.70	ug/Kg	7/3/2014	22:54
Isopropylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
m,p-Xylene	< 8.70	ug/Kg	7/3/2014	22:54
Methyl acetate	< 8.70	ug/Kg	7/3/2014	22:54
Methyl tert-butyl Ether	< 8.70	ug/Kg	7/3/2014	22:54

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PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S6 (B-6)
Lab Sample ID: 142734-06 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 8.70	ug/Kg	7/3/2014	22:54
Methylene chloride	< 21.8	ug/Kg	7/3/2014	22:54
Naphthalene	< 21.8	ug/Kg	7/3/2014	22:54
n-Butylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
n-Propylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
o-Xylene	< 8.70	ug/Kg	7/3/2014	22:54
p-Isopropyltoluene	< 8.70	ug/Kg	7/3/2014	22:54
sec-Butylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
Styrene	< 21.8	ug/Kg	7/3/2014	22:54
tert-Butylbenzene	< 8.70	ug/Kg	7/3/2014	22:54
Tetrachloroethene	< 8.70	ug/Kg	7/3/2014	22:54
Toluene	< 8.70	ug/Kg	7/3/2014	22:54
trans-1,2-Dichloroethene	< 8.70	ug/Kg	7/3/2014	22:54
trans-1,3-Dichloropropene	< 8.70	ug/Kg	7/3/2014	22:54
Trichloroethene	< 8.70	ug/Kg	7/3/2014	22:54
Trichlorofluoromethane	< 8.70	ug/Kg	7/3/2014	22:54
Vinyl chloride	< 8.70	ug/Kg	7/3/2014	22:54

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14709.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S7 (B-9)
Lab Sample ID: 142734-07
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.461**	mg/Kg		7/8/2014 14:44

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**7920**	mg/Kg		7/7/2014 13:06
Antimony	< 6.32	mg/Kg		7/7/2014 13:06
Arsenic	**5.28**	mg/Kg		7/7/2014 13:06
Barium	**53.4**	mg/Kg		7/7/2014 13:06
Beryllium	< 0.526	mg/Kg		7/7/2014 13:06
Cadmium	< 0.526	mg/Kg		7/7/2014 13:06
Calcium	**34600**	mg/Kg		7/7/2014 13:06
Chromium	**12.7**	mg/Kg		7/7/2014 13:06
Cobalt	**5.58**	mg/Kg		7/7/2014 13:06
Copper	**34.2**	mg/Kg		7/7/2014 13:06
Iron	**14900**	mg/Kg		7/7/2014 13:06
Lead	**87.6**	mg/Kg		7/7/2014 13:06
Magnesium	**11800**	mg/Kg		7/7/2014 13:06
Manganese	**287**	mg/Kg		7/7/2014 13:06
Nickel	**14.0**	mg/Kg		7/7/2014 13:06
Potassium	**1220**	mg/Kg		7/7/2014 13:06
Selenium	< 1.05	mg/Kg		7/7/2014 13:06
Silver	< 1.05	mg/Kg		7/7/2014 13:06
Sodium	< 263	mg/Kg		7/7/2014 13:06
Thallium	< 2.63	mg/Kg		7/7/2014 13:06

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Report Prepared Wednesday, July 09, 2014

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S7 (B-9)
Lab Sample ID: 142734-07 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**15.5**	mg/Kg		7/7/2014	13:06
Zinc	**94.5**	mg/Kg		7/7/2014	13:06

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1221	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1232	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1242	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1248	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1254	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1260	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1262	< 0.350	mg/Kg		7/2/2014	21:16
PCB-1268	< 0.350	mg/Kg		7/2/2014	21:16

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	**609**	ug/Kg		7/8/2014	05:13
Acenaphthylene	< 315	ug/Kg		7/8/2014	05:13
Anthracene	**1270**	ug/Kg		7/8/2014	05:13
Benzo (a) anthracene	**1860**	ug/Kg		7/8/2014	05:13
Benzo (a) pyrene	**1240**	ug/Kg		7/8/2014	05:13
Benzo (b) fluoranthene	**1080**	ug/Kg		7/8/2014	05:13
Benzo (g,h,i) perylene	**512**	ug/Kg		7/8/2014	05:13
Benzo (k) fluoranthene	**927**	ug/Kg		7/8/2014	05:13

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S7 (B-9)
Lab Sample ID: 142734-07
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	**1630**	ug/Kg		7/8/2014	05:13
Dibenz (a,h) anthracene	< 315	ug/Kg		7/8/2014	05:13
Fluoranthene	**3510**	ug/Kg		7/8/2014	05:13
Fluorene	**607**	ug/Kg		7/8/2014	05:13
Indeno (1,2,3-cd) pyrene	**664**	ug/Kg		7/8/2014	05:13
Naphthalene	< 315	ug/Kg		7/8/2014	05:13
Phenanthrene	**3400**	ug/Kg		7/8/2014	05:13
Pyrene	**2880**	ug/Kg		7/8/2014	05:13

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77877.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.24	ug/Kg		7/3/2014	23:17
1,1,2,2-Tetrachloroethane	< 7.24	ug/Kg		7/3/2014	23:17
1,1,2-Trichloroethane	< 7.24	ug/Kg		7/3/2014	23:17
1,1-Dichloroethane	< 7.24	ug/Kg		7/3/2014	23:17
1,1-Dichloroethene	< 7.24	ug/Kg		7/3/2014	23:17
1,2,3-Trichlorobenzene	< 18.1	ug/Kg		7/3/2014	23:17
1,2,4-Trichlorobenzene	< 18.1	ug/Kg		7/3/2014	23:17
1,2,4-Trimethylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
1,2-Dibromo-3-Chloropropane	< 36.2	ug/Kg		7/3/2014	23:17
1,2-Dibromoethane	< 7.24	ug/Kg		7/3/2014	23:17
1,2-Dichlorobenzene	< 7.24	ug/Kg		7/3/2014	23:17
1,2-Dichloroethane	< 7.24	ug/Kg		7/3/2014	23:17
1,2-Dichloropropane	< 7.24	ug/Kg		7/3/2014	23:17
1,3,5-Trimethylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
1,3-Dichlorobenzene	< 7.24	ug/Kg		7/3/2014	23:17

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S7 (B-9)
Lab Sample ID: 142734-07 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 7.24	ug/Kg	7/3/2014	23:17
1,4-dioxane	< 72.4	ug/Kg	7/3/2014	23:17
2-Butanone	< 36.2	ug/Kg	7/3/2014	23:17
2-Hexanone	< 18.1	ug/Kg	7/3/2014	23:17
4-Methyl-2-pentanone	< 18.1	ug/Kg	7/3/2014	23:17
Acetone	< 36.2	ug/Kg	7/3/2014	23:17
Benzene	< 7.24	ug/Kg	7/3/2014	23:17
Bromochloromethane	< 18.1	ug/Kg	7/3/2014	23:17
Bromodichloromethane	< 7.24	ug/Kg	7/3/2014	23:17
Bromoform	< 18.1	ug/Kg	7/3/2014	23:17
Bromomethane	< 7.24	ug/Kg	7/3/2014	23:17
Carbon disulfide	< 7.24	ug/Kg	7/3/2014	23:17
Carbon Tetrachloride	< 7.24	ug/Kg	7/3/2014	23:17
Chlorobenzene	< 7.24	ug/Kg	7/3/2014	23:17
Chloroethane	< 7.24	ug/Kg	7/3/2014	23:17
Chloroform	< 7.24	ug/Kg	7/3/2014	23:17
Chloromethane	< 7.24	ug/Kg	7/3/2014	23:17
cis-1,2-Dichloroethene	< 7.24	ug/Kg	7/3/2014	23:17
cis-1,3-Dichloropropene	< 7.24	ug/Kg	7/3/2014	23:17
Cyclohexane	< 36.2	ug/Kg	7/3/2014	23:17
Dibromochloromethane	< 7.24	ug/Kg	7/3/2014	23:17
Dichlorodifluoromethane	< 7.24	ug/Kg	7/3/2014	23:17
Ethylbenzene	< 7.24	ug/Kg	7/3/2014	23:17
Freon 113	< 7.24	ug/Kg	7/3/2014	23:17
Isopropylbenzene	< 7.24	ug/Kg	7/3/2014	23:17
m,p-Xylene	< 7.24	ug/Kg	7/3/2014	23:17
Methyl acetate	< 7.24	ug/Kg	7/3/2014	23:17
Methyl tert-butyl Ether	< 7.24	ug/Kg	7/3/2014	23:17

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S7 (B-9)
Lab Sample ID: 142734-07 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 7.24	ug/Kg		7/3/2014	23:17
Methylene chloride	< 18.1	ug/Kg		7/3/2014	23:17
Naphthalene	< 18.1	ug/Kg		7/3/2014	23:17
n-Butylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
n-Propylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
o-Xylene	< 7.24	ug/Kg		7/3/2014	23:17
p-Isopropyltoluene	< 7.24	ug/Kg		7/3/2014	23:17
sec-Butylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
Styrene	< 18.1	ug/Kg		7/3/2014	23:17
tert-Butylbenzene	< 7.24	ug/Kg		7/3/2014	23:17
Tetrachloroethene	< 7.24	ug/Kg		7/3/2014	23:17
Toluene	< 7.24	ug/Kg		7/3/2014	23:17
trans-1,2-Dichloroethene	< 7.24	ug/Kg		7/3/2014	23:17
trans-1,3-Dichloropropene	< 7.24	ug/Kg		7/3/2014	23:17
Trichloroethene	< 7.24	ug/Kg		7/3/2014	23:17
Trichlorofluoromethane	< 7.24	ug/Kg		7/3/2014	23:17
Vinyl chloride	< 7.24	ug/Kg		7/3/2014	23:17

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x14710.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, July 09, 2014

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S8 (B-10)
Lab Sample ID: 142734-08
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**1.07**	mg/Kg		7/8/2014 14:47

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**9210**	mg/Kg		7/7/2014 13:10
Antimony	< 7.59	mg/Kg		7/7/2014 13:10
Arsenic	**6.56**	mg/Kg		7/7/2014 13:10
Barium	**106**	mg/Kg		7/7/2014 13:10
Beryllium	< 0.632	mg/Kg		7/7/2014 13:10
Cadmium	< 0.632	mg/Kg		7/7/2014 13:10
Calcium	**50900**	mg/Kg		7/7/2014 13:10
Chromium	**18.9**	mg/Kg		7/7/2014 13:10
Cobalt	**7.27**	mg/Kg		7/7/2014 13:10
Copper	**60.2**	mg/Kg		7/7/2014 13:10
Iron	**20300**	mg/Kg		7/7/2014 13:10
Lead	**597**	mg/Kg		7/7/2014 13:10
Magnesium	**14200**	mg/Kg		7/7/2014 13:10
Manganese	**363**	mg/Kg		7/7/2014 13:10
Nickel	**19.0**	mg/Kg		7/7/2014 13:10
Potassium	**1780**	mg/Kg		7/7/2014 13:10
Selenium	< 1.26	mg/Kg		7/7/2014 13:10
Silver	< 1.26	mg/Kg		7/7/2014 13:10
Sodium	**428**	mg/Kg		7/7/2014 13:10
Thallium	< 3.16	mg/Kg		7/7/2014 13:10

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S8 (B-10)
Lab Sample ID: 142734-08 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Vanadium	**22.1**	mg/Kg		7/7/2014	13:10
Zinc	**196**	mg/Kg		7/7/2014	13:10

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1221	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1232	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1242	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1248	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1254	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1260	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1262	< 0.380	mg/Kg		7/2/2014	21:39
PCB-1268	< 0.380	mg/Kg		7/2/2014	21:39

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 327	ug/Kg		7/8/2014	05:44
Acenaphthylene	< 327	ug/Kg		7/8/2014	05:44
Anthracene	**659**	ug/Kg		7/8/2014	05:44
Benzo (a) anthracene	**1450**	ug/Kg		7/8/2014	05:44
Benzo (a) pyrene	**1220**	ug/Kg		7/8/2014	05:44
Benzo (b) fluoranthene	**1260**	ug/Kg		7/8/2014	05:44
Benzo (g,h,i) perylene	**761**	ug/Kg		7/8/2014	05:44
Benzo (k) fluoranthene	**808**	ug/Kg		7/8/2014	05:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S8 (B-10)
Lab Sample ID: 142734-08 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Chrysene	**1490**	ug/Kg		7/8/2014	05:44
Dibenz (a,h) anthracene	< 327	ug/Kg		7/8/2014	05:44
Fluoranthene	**3250**	ug/Kg		7/8/2014	05:44
Fluorene	**364**	ug/Kg		7/8/2014	05:44
Indeno (1,2,3-cd) pyrene	**948**	ug/Kg		7/8/2014	05:44
Naphthalene	< 327	ug/Kg		7/8/2014	05:44
Phenanthrene	**2340**	ug/Kg		7/8/2014	05:44
Pyrene	**2670**	ug/Kg		7/8/2014	05:44

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77878.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.20	ug/Kg		7/3/2014	23:40
1,1,2,2-Tetrachloroethane	< 8.20	ug/Kg		7/3/2014	23:40
1,1,2-Trichloroethane	< 8.20	ug/Kg		7/3/2014	23:40
1,1-Dichloroethane	< 8.20	ug/Kg		7/3/2014	23:40
1,1-Dichloroethene	< 8.20	ug/Kg		7/3/2014	23:40
1,2,3-Trichlorobenzene	< 20.5	ug/Kg		7/3/2014	23:40
1,2,4-Trichlorobenzene	< 20.5	ug/Kg		7/3/2014	23:40
1,2,4-Trimethylbenzene	< 8.20	ug/Kg		7/3/2014	23:40
1,2-Dibromo-3-Chloropropane	< 41.0	ug/Kg		7/3/2014	23:40
1,2-Dibromoethane	< 8.20	ug/Kg		7/3/2014	23:40
1,2-Dichlorobenzene	< 8.20	ug/Kg		7/3/2014	23:40
1,2-Dichloroethane	< 8.20	ug/Kg		7/3/2014	23:40
1,2-Dichloropropane	< 8.20	ug/Kg		7/3/2014	23:40
1,3,5-Trimethylbenzene	< 8.20	ug/Kg		7/3/2014	23:40
1,3-Dichlorobenzene	< 8.20	ug/Kg		7/3/2014	23:40

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S8 (B-10)
Lab Sample ID: 142734-08 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 8.20	ug/Kg	7/3/2014	23:40
1,4-dioxane	< 82.0	ug/Kg	7/3/2014	23:40
2-Butanone	< 41.0	ug/Kg	7/3/2014	23:40
2-Hexanone	< 20.5	ug/Kg	7/3/2014	23:40
4-Methyl-2-pentanone	< 20.5	ug/Kg	7/3/2014	23:40
Acetone	**62.7**	ug/Kg	7/3/2014	23:40
Benzene	< 8.20	ug/Kg	7/3/2014	23:40
Bromochloromethane	< 20.5	ug/Kg	7/3/2014	23:40
Bromodichloromethane	< 8.20	ug/Kg	7/3/2014	23:40
Bromoform	< 20.5	ug/Kg	7/3/2014	23:40
Bromomethane	< 8.20	ug/Kg	7/3/2014	23:40
Carbon disulfide	< 8.20	ug/Kg	7/3/2014	23:40
Carbon Tetrachloride	< 8.20	ug/Kg	7/3/2014	23:40
Chlorobenzene	< 8.20	ug/Kg	7/3/2014	23:40
Chloroethane	< 8.20	ug/Kg	7/3/2014	23:40
Chloroform	< 8.20	ug/Kg	7/3/2014	23:40
Chloromethane	< 8.20	ug/Kg	7/3/2014	23:40
cis-1,2-Dichloroethene	< 8.20	ug/Kg	7/3/2014	23:40
cis-1,3-Dichloropropene	< 8.20	ug/Kg	7/3/2014	23:40
Cyclohexane	< 41.0	ug/Kg	7/3/2014	23:40
Dibromochloromethane	< 8.20	ug/Kg	7/3/2014	23:40
Dichlorodifluoromethane	< 8.20	ug/Kg	7/3/2014	23:40
Ethylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
Freon 113	< 8.20	ug/Kg	7/3/2014	23:40
Isopropylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
m,p-Xylene	< 8.20	ug/Kg	7/3/2014	23:40
Methyl acetate	< 8.20	ug/Kg	7/3/2014	23:40
Methyl tert-butyl Ether	< 8.20	ug/Kg	7/3/2014	23:40

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S8 (B-10)
Lab Sample ID: 142734-08
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Methylcyclohexane	< 8.20	ug/Kg	7/3/2014	23:40
Methylene chloride	< 20.5	ug/Kg	7/3/2014	23:40
Naphthalene	< 20.5	ug/Kg	7/3/2014	23:40
n-Butylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
n-Propylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
o-Xylene	< 8.20	ug/Kg	7/3/2014	23:40
p-Isopropyltoluene	< 8.20	ug/Kg	7/3/2014	23:40
sec-Butylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
Styrene	< 20.5	ug/Kg	7/3/2014	23:40
tert-Butylbenzene	< 8.20	ug/Kg	7/3/2014	23:40
Tetrachloroethene	< 8.20	ug/Kg	7/3/2014	23:40
Toluene	< 8.20	ug/Kg	7/3/2014	23:40
trans-1,2-Dichloroethene	< 8.20	ug/Kg	7/3/2014	23:40
trans-1,3-Dichloropropene	< 8.20	ug/Kg	7/3/2014	23:40
Trichloroethene	< 8.20	ug/Kg	7/3/2014	23:40
Trichlorofluoromethane	< 8.20	ug/Kg	7/3/2014	23:40
Vinyl chloride	< 8.20	ug/Kg	7/3/2014	23:40

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x14711.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S9 (B-1)
Lab Sample ID: 142734-09 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.0232	mg/Kg		7/8/2014 14:51

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**10300**	mg/Kg		7/7/2014 13:14
Antimony	< 6.90	mg/Kg		7/7/2014 13:14
Arsenic	**7.56**	mg/Kg		7/7/2014 13:14
Barium	**119**	mg/Kg		7/7/2014 13:14
Beryllium	**0.675**	mg/Kg		7/7/2014 13:14
Cadmium	< 0.575	mg/Kg		7/7/2014 13:14
Calcium	**48300**	mg/Kg		7/7/2014 13:14
Chromium	**16.3**	mg/Kg		7/7/2014 13:14
Cobalt	**6.70**	mg/Kg		7/7/2014 13:14
Copper	**48.3**	mg/Kg		7/7/2014 13:14
Iron	**21300**	mg/Kg		7/7/2014 13:14
Lead	**287**	mg/Kg		7/7/2014 13:14
Magnesium	**15500**	mg/Kg		7/7/2014 13:14
Manganese	**433**	mg/Kg		7/7/2014 13:14
Nickel	**17.6**	mg/Kg		7/7/2014 13:14
Potassium	**2050**	mg/Kg		7/7/2014 13:14
Selenium	< 1.15	mg/Kg		7/7/2014 13:14
Silver	< 1.15	mg/Kg		7/7/2014 13:14
Sodium	**430**	mg/Kg		7/7/2014 13:14
Thallium	< 2.87	mg/Kg		7/7/2014 13:14

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Report Prepared Wednesday, July 09, 2014

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S9 (B-1)
Lab Sample ID: 142734-09
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Vanadium	**22.9**	mg/Kg		7/7/2014	13:14
Zinc	**166**	mg/Kg		7/7/2014	13:14

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1221	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1232	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1242	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1248	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1254	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1260	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1262	< 0.386	mg/Kg		7/2/2014	22:02
PCB-1268	< 0.386	mg/Kg		7/2/2014	22:02

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 329	ug/Kg		7/8/2014	06:15
Acenaphthylene	< 329	ug/Kg		7/8/2014	06:15
Anthracene	**818**	ug/Kg		7/8/2014	06:15
Benzo (a) anthracene	**1600**	ug/Kg		7/8/2014	06:15
Benzo (a) pyrene	**1390**	ug/Kg		7/8/2014	06:15
Benzo (b) fluoranthene	**1220**	ug/Kg		7/8/2014	06:15
Benzo (g,h,i) perylene	**889**	ug/Kg		7/8/2014	06:15
Benzo (k) fluoranthene	**1240**	ug/Kg		7/8/2014	06:15

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S9 (B-1)
Lab Sample ID: 142734-09 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Chrysene	**1690**	ug/Kg		7/8/2014	06:15
Dibenz (a,h) anthracene	< 329	ug/Kg		7/8/2014	06:15
Fluoranthene	**3560**	ug/Kg		7/8/2014	06:15
Fluorene	**373**	ug/Kg		7/8/2014	06:15
Indeno (1,2,3-cd) pyrene	**1160**	ug/Kg		7/8/2014	06:15
Naphthalene	< 329	ug/Kg		7/8/2014	06:15
Phenanthrene	**2230**	ug/Kg		7/8/2014	06:15
Pyrene	**3050**	ug/Kg		7/8/2014	06:15

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77879.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.78	ug/Kg		7/4/2014	00:04
1,1,2,2-Tetrachloroethane	< 7.78	ug/Kg		7/4/2014	00:04
1,1,2-Trichloroethane	< 7.78	ug/Kg		7/4/2014	00:04
1,1-Dichloroethane	< 7.78	ug/Kg		7/4/2014	00:04
1,1-Dichloroethene	< 7.78	ug/Kg		7/4/2014	00:04
1,2,3-Trichlorobenzene	< 19.4	ug/Kg		7/4/2014	00:04
1,2,4-Trichlorobenzene	< 19.4	ug/Kg		7/4/2014	00:04
1,2,4-Trimethylbenzene	< 7.78	ug/Kg		7/4/2014	00:04
1,2-Dibromo-3-Chloropropane	< 38.9	ug/Kg		7/4/2014	00:04
1,2-Dibromoethane	< 7.78	ug/Kg		7/4/2014	00:04
1,2-Dichlorobenzene	< 7.78	ug/Kg		7/4/2014	00:04
1,2-Dichloroethane	< 7.78	ug/Kg		7/4/2014	00:04
1,2-Dichloropropane	< 7.78	ug/Kg		7/4/2014	00:04
1,3,5-Trimethylbenzene	< 7.78	ug/Kg		7/4/2014	00:04
1,3-Dichlorobenzene	< 7.78	ug/Kg		7/4/2014	00:04

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S9 (B-1)
Lab Sample ID: 142734-09 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

1,4-Dichlorobenzene	< 7.78	ug/Kg	7/4/2014	00:04
1,4-dioxane	< 77.8	ug/Kg	7/4/2014	00:04
2-Butanone	< 38.9	ug/Kg	7/4/2014	00:04
2-Hexanone	< 19.4	ug/Kg	7/4/2014	00:04
4-Methyl-2-pentanone	< 19.4	ug/Kg	7/4/2014	00:04
Acetone	< 38.9	ug/Kg	7/4/2014	00:04
Benzene	< 7.78	ug/Kg	7/4/2014	00:04
Bromochloromethane	< 19.4	ug/Kg	7/4/2014	00:04
Bromodichloromethane	< 7.78	ug/Kg	7/4/2014	00:04
Bromoform	< 19.4	ug/Kg	7/4/2014	00:04
Bromomethane	< 7.78	ug/Kg	7/4/2014	00:04
Carbon disulfide	< 7.78	ug/Kg	7/4/2014	00:04
Carbon Tetrachloride	< 7.78	ug/Kg	7/4/2014	00:04
Chlorobenzene	< 7.78	ug/Kg	7/4/2014	00:04
Chloroethane	< 7.78	ug/Kg	7/4/2014	00:04
Chloroform	< 7.78	ug/Kg	7/4/2014	00:04
Chloromethane	< 7.78	ug/Kg	7/4/2014	00:04
cis-1,2-Dichloroethene	< 7.78	ug/Kg	7/4/2014	00:04
cis-1,3-Dichloropropene	< 7.78	ug/Kg	7/4/2014	00:04
Cyclohexane	< 38.9	ug/Kg	7/4/2014	00:04
Dibromochloromethane	< 7.78	ug/Kg	7/4/2014	00:04
Dichlorodifluoromethane	< 7.78	ug/Kg	7/4/2014	00:04
Ethylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
Freon 113	< 7.78	ug/Kg	7/4/2014	00:04
Isopropylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
m,p-Xylene	< 7.78	ug/Kg	7/4/2014	00:04
Methyl acetate	< 7.78	ug/Kg	7/4/2014	00:04
Methyl tert-butyl Ether	< 7.78	ug/Kg	7/4/2014	00:04

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S9 (B-1)
Lab Sample ID: 142734-09 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 7.78	ug/Kg	7/4/2014	00:04
Methylene chloride	< 19.4	ug/Kg	7/4/2014	00:04
Naphthalene	**41.6**	ug/Kg	7/4/2014	00:04
n-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
n-Propylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
o-Xylene	< 7.78	ug/Kg	7/4/2014	00:04
p-Isopropyltoluene	< 7.78	ug/Kg	7/4/2014	00:04
sec-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
Styrene	< 19.4	ug/Kg	7/4/2014	00:04
tert-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:04
Tetrachloroethene	< 7.78	ug/Kg	7/4/2014	00:04
Toluene	< 7.78	ug/Kg	7/4/2014	00:04
trans-1,2-Dichloroethene	< 7.78	ug/Kg	7/4/2014	00:04
trans-1,3-Dichloropropene	< 7.78	ug/Kg	7/4/2014	00:04
Trichloroethene	< 7.78	ug/Kg	7/4/2014	00:04
Trichlorofluoromethane	< 7.78	ug/Kg	7/4/2014	00:04
Vinyl chloride	< 7.78	ug/Kg	7/4/2014	00:04

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x14712.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S10 (B-2)
Lab Sample ID: 142734-10
Matrix: Soil

Date Sampled: 6/30/2014
Date Received: 7/1/2014

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.0185	mg/Kg		7/8/2014 14:54

Method Reference(s): EPA 7471B
Data File: Hg140708C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**8350**	mg/Kg		7/7/2014 13:19
Antimony	< 7.17	mg/Kg		7/7/2014 13:19
Arsenic	< 1.19	mg/Kg		7/7/2014 13:19
Barium	**158**	mg/Kg		7/7/2014 13:19
Beryllium	< 0.597	mg/Kg		7/7/2014 13:19
Cadmium	< 0.597	mg/Kg		7/7/2014 13:19
Calcium	**1860**	mg/Kg		7/7/2014 13:19
Chromium	**11.6**	mg/Kg		7/7/2014 13:19
Cobalt	< 5.97	mg/Kg		7/7/2014 13:19
Copper	**8.01**	mg/Kg		7/7/2014 13:19
Iron	**6340**	mg/Kg		7/7/2014 13:19
Lead	**7.35**	mg/Kg		7/7/2014 13:19
Magnesium	**1660**	mg/Kg		7/7/2014 13:19
Manganese	**60.4**	mg/Kg		7/7/2014 13:19
Nickel	**7.63**	mg/Kg		7/7/2014 13:19
Potassium	**779**	mg/Kg		7/7/2014 13:19
Selenium	< 1.19	mg/Kg		7/7/2014 13:19
Silver	< 1.19	mg/Kg		7/7/2014 13:19
Sodium	< 299	mg/Kg		7/7/2014 13:19
Thallium	< 2.99	mg/Kg		7/7/2014 13:19

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S10 (B-2)
Lab Sample ID: 142734-10
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Vanadium	**15.4**	mg/Kg		7/7/2014	13:19
Zinc	**53.6**	mg/Kg		7/7/2014	13:19

Method Reference(s): EPA 6010C
EPA 3050
Data File: 070714b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed	
PCB-1016	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1221	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1232	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1242	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1248	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1254	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1260	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1262	< 0.368	mg/Kg		7/2/2014	22:25
PCB-1268	< 0.368	mg/Kg		7/2/2014	22:25

Method Reference(s): EPA 8082A
EPA 3550C

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	< 329	ug/Kg		7/8/2014	06:46
Acenaphthylene	< 329	ug/Kg		7/8/2014	06:46
Anthracene	< 329	ug/Kg		7/8/2014	06:46
Benzo (a) anthracene	< 329	ug/Kg		7/8/2014	06:46
Benzo (a) pyrene	< 329	ug/Kg		7/8/2014	06:46
Benzo (b) fluoranthene	< 329	ug/Kg		7/8/2014	06:46
Benzo (g,h,i) perylene	< 329	ug/Kg		7/8/2014	06:46
Benzo (k) fluoranthene	< 329	ug/Kg		7/8/2014	06:46

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Report Prepared Wednesday, July 09, 2014

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S10 (B-2)
Lab Sample ID: 142734-10
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

Chrysene	< 329	ug/Kg	7/8/2014	06:46
Dibenz (a,h) anthracene	< 329	ug/Kg	7/8/2014	06:46
Fluoranthene	< 329	ug/Kg	7/8/2014	06:46
Fluorene	< 329	ug/Kg	7/8/2014	06:46
Indeno (1,2,3-cd) pyrene	< 329	ug/Kg	7/8/2014	06:46
Naphthalene	< 329	ug/Kg	7/8/2014	06:46
Phenanthrene	< 329	ug/Kg	7/8/2014	06:46
Pyrene	< 329	ug/Kg	7/8/2014	06:46

Method Reference(s): EPA 8270D
EPA 3550C
Data File: S77880.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.78	ug/Kg		7/4/2014	00:27
1,1,2,2-Tetrachloroethane	< 7.78	ug/Kg		7/4/2014	00:27
1,1,2-Trichloroethane	< 7.78	ug/Kg		7/4/2014	00:27
1,1-Dichloroethane	< 7.78	ug/Kg		7/4/2014	00:27
1,1-Dichloroethene	< 7.78	ug/Kg		7/4/2014	00:27
1,2,3-Trichlorobenzene	< 19.4	ug/Kg		7/4/2014	00:27
1,2,4-Trichlorobenzene	< 19.4	ug/Kg		7/4/2014	00:27
1,2,4-Trimethylbenzene	< 7.78	ug/Kg		7/4/2014	00:27
1,2-Dibromo-3-Chloropropane	< 38.9	ug/Kg		7/4/2014	00:27
1,2-Dibromoethane	< 7.78	ug/Kg		7/4/2014	00:27
1,2-Dichlorobenzene	< 7.78	ug/Kg		7/4/2014	00:27
1,2-Dichloroethane	< 7.78	ug/Kg		7/4/2014	00:27
1,2-Dichloropropane	< 7.78	ug/Kg		7/4/2014	00:27
1,3,5-Trimethylbenzene	< 7.78	ug/Kg		7/4/2014	00:27
1,3-Dichlorobenzene	< 7.78	ug/Kg		7/4/2014	00:27

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S10 (B-2)
Lab Sample ID: 142734-10
Matrix: Soil
Date Sampled: 6/30/2014
Date Received: 7/1/2014

1,4-Dichlorobenzene	< 7.78	ug/Kg	7/4/2014	00:27
1,4-dioxane	< 77.8	ug/Kg	7/4/2014	00:27
2-Butanone	< 38.9	ug/Kg	7/4/2014	00:27
2-Hexanone	< 19.4	ug/Kg	7/4/2014	00:27
4-Methyl-2-pentanone	< 19.4	ug/Kg	7/4/2014	00:27
Acetone	**49.5**	ug/Kg	7/4/2014	00:27
Benzene	< 7.78	ug/Kg	7/4/2014	00:27
Bromochloromethane	< 19.4	ug/Kg	7/4/2014	00:27
Bromodichloromethane	< 7.78	ug/Kg	7/4/2014	00:27
Bromoform	< 19.4	ug/Kg	7/4/2014	00:27
Bromomethane	< 7.78	ug/Kg	7/4/2014	00:27
Carbon disulfide	< 7.78	ug/Kg	7/4/2014	00:27
Carbon Tetrachloride	< 7.78	ug/Kg	7/4/2014	00:27
Chlorobenzene	< 7.78	ug/Kg	7/4/2014	00:27
Chloroethane	< 7.78	ug/Kg	7/4/2014	00:27
Chloroform	< 7.78	ug/Kg	7/4/2014	00:27
Chloromethane	< 7.78	ug/Kg	7/4/2014	00:27
cis-1,2-Dichloroethene	< 7.78	ug/Kg	7/4/2014	00:27
cis-1,3-Dichloropropene	< 7.78	ug/Kg	7/4/2014	00:27
Cyclohexane	< 38.9	ug/Kg	7/4/2014	00:27
Dibromochloromethane	< 7.78	ug/Kg	7/4/2014	00:27
Dichlorodifluoromethane	< 7.78	ug/Kg	7/4/2014	00:27
Ethylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
Freon 113	< 7.78	ug/Kg	7/4/2014	00:27
Isopropylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
m,p-Xylene	< 7.78	ug/Kg	7/4/2014	00:27
Methyl acetate	< 7.78	ug/Kg	7/4/2014	00:27
Methyl tert-butyl Ether	< 7.78	ug/Kg	7/4/2014	00:27

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM

Lab Project ID: 142734

Client: Fisher Associates

Project Reference: Buffalo South Aud FA#144009

Sample Identifier: 144009-S10 (B-2)
Lab Sample ID: 142734-10 **Date Sampled:** 6/30/2014
Matrix: Soil **Date Received:** 7/1/2014

Methylcyclohexane	< 7.78	ug/Kg	7/4/2014	00:27
Methylene chloride	< 19.4	ug/Kg	7/4/2014	00:27
Naphthalene	< 19.4	ug/Kg	7/4/2014	00:27
n-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
n-Propylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
o-Xylene	< 7.78	ug/Kg	7/4/2014	00:27
p-Isopropyltoluene	< 7.78	ug/Kg	7/4/2014	00:27
sec-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
Styrene	< 19.4	ug/Kg	7/4/2014	00:27
tert-Butylbenzene	< 7.78	ug/Kg	7/4/2014	00:27
Tetrachloroethene	< 7.78	ug/Kg	7/4/2014	00:27
Toluene	< 7.78	ug/Kg	7/4/2014	00:27
trans-1,2-Dichloroethene	< 7.78	ug/Kg	7/4/2014	00:27
trans-1,3-Dichloropropene	< 7.78	ug/Kg	7/4/2014	00:27
Trichloroethene	< 7.78	ug/Kg	7/4/2014	00:27
Trichlorofluoromethane	< 7.78	ug/Kg	7/4/2014	00:27
Vinyl chloride	< 7.78	ug/Kg	7/4/2014	00:27

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x14713.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	FISHER ASSOCIATES	CLIENT:		142734
ADDRESS:	135 CALKINS RD	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14623	CITY:	SAME STATE: ZIP:	
PHONE:	334-1310	PHONE:		Email: JDORETY@FISHERASSOC.COM
ATTN:	JOE DORETY	ATTN:		

PROJECT REFERENCE: BUFFALO SOUTH AUD FA# 144009

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: 8260 TCL SVOCs	8270 SVOCs	TAL METALS	PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 6/30/14	0930	X		144009-S1 (B-12)	SO	2	X	X	X	X		01
2	1010			144009-S2 (B-4)								02
3	1040			144009-S3 (B-5)								03
4	1105			144009-S4 (B-7)								04
5	1130			144009-S5 (B-8)								05
6	1150			144009-S6 (B-6)								06
7	1225			144009-S7 (B-9)								07
8	1300			144009-S8 (B-10)								08
9	1330			144009-S9 (B-1)								09
10	1355			144009-S10 (B-2)								10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

5°C rad

Sampled By	JOE DORETY	6/30/14 Date/Time	1400
Relinquished By		6/30/14 Date/Time	1710
Received By		6/30/14 Date/Time	1710
Received @ Lab By	Molly Wall	7/1/14 Date/Time	0958

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES

Chain of Custody Supplement

Client: Fisher

Completed by: Noll/Vail

Lab Project ID: 142734

Date: 7/1/14

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	Y	Y 5035	
Comments	2 of 3		
Transferred to method-compliant container			Y
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	Y		
Comments			
Temperature	Y		X metal
Comments	5°C iced		
Sufficient Sample Quantity	X		
Comments			

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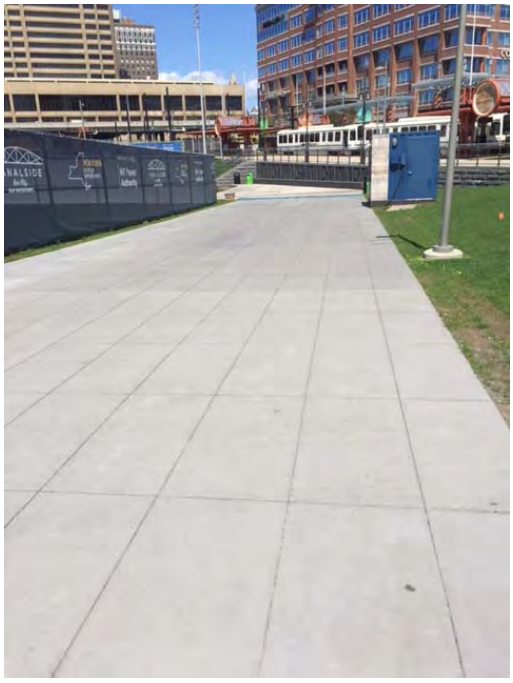
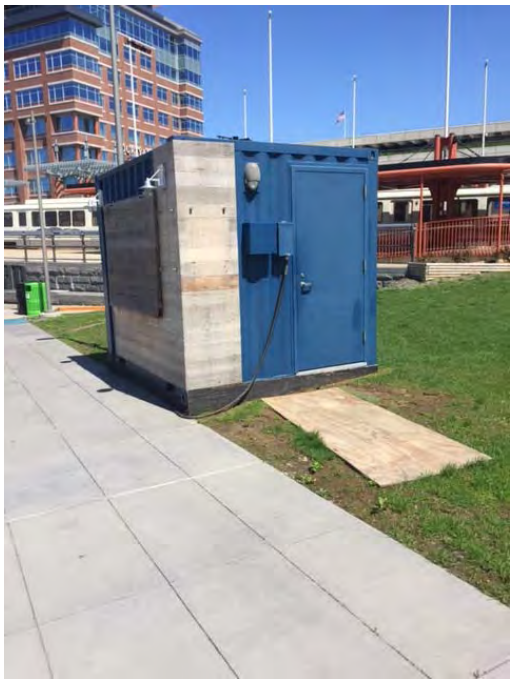
Photograph Views



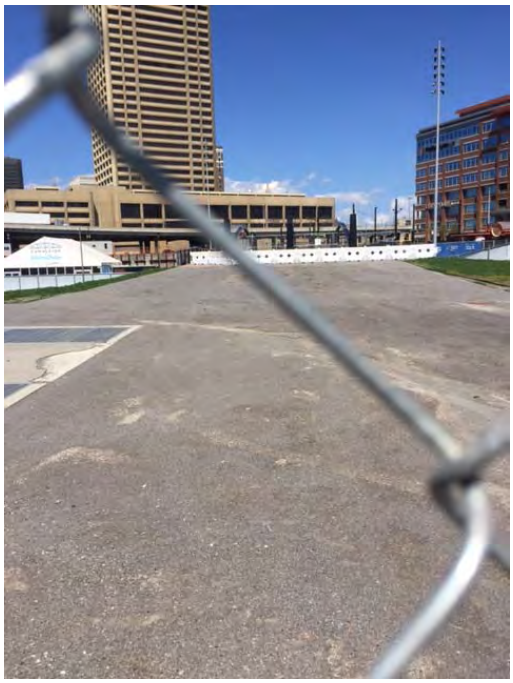
View of the concrete sidewalk along the easterly portion of the Site.



View of the one structure noted on-site.

Photograph Views

View of the central portion of the Site which is currently fenced-in.



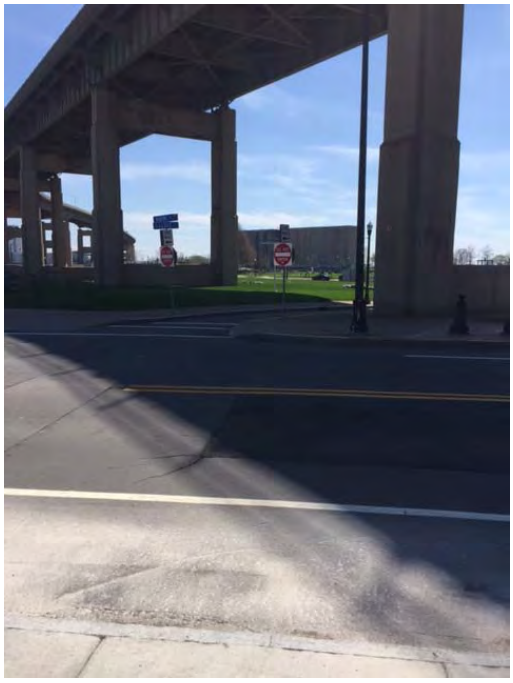
View of the asphalt-paved sidewalk along the westerly portion of the Site.

Photograph Views

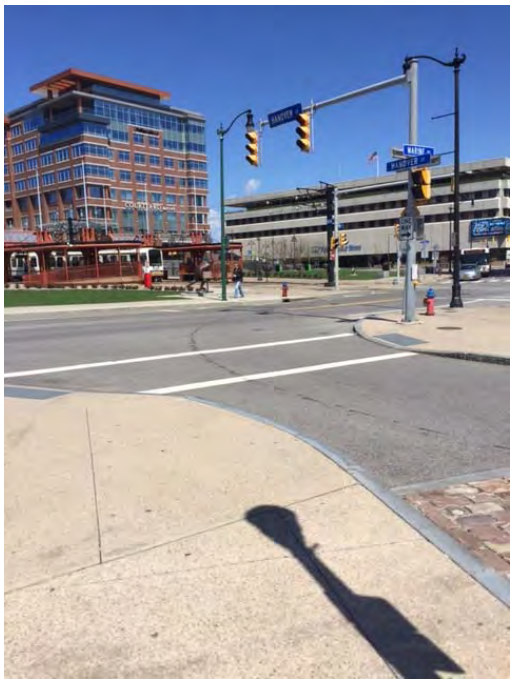
Another view of the fenced-in portion of the Site

View of the north adjacent ice rink.

Photograph Views



View of the south adjacent park area and the Skyway.



View of the east adjacent Hotel and exterior area.

Photograph Views

View of the west adjacent Canalside area.